STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 149952

TO: Patricia Duffy Location: REM-3B05&3C18 Art Unit: 1645 Monday, April 11, 2005 Case Serial Number: 09/880748	From: Alex Waclawiw Location: Biotech-Chem Library CM1-6A02 Phone: 308-4491 Alexandra.waclawiw@uspto.gov

Search Notes

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/ 149952

STIC-Biotech/ChemLib

From: Duffy, Patricia
Sent: Tuesday, April 05, 2005 2:50 PM
To: STIC-Biotech/ChemLib
Subject: Sequence search 09/880,748

In re: 09/880,748

Please search residues 1-123 of SEQ I DNO:327 and residues 141-249 of SEQ ID NO:327.
Please perform a search in both the commercial and interference databases.

DEAR SEARCHER,
PLEASE NOTE: THIS APPLICATION IS NOT A SPDI, BUT HAS A LARGE NUMBER OF MATCHING HITS IN THE COMMERCIAL AND INTERFERENCE DATABASES THAT HIT ON ITSELF. FOR THE FIRST ROUND OF SEARCHING I WOULD ONLY LIKE A HIT LIST THAT GIVE HITS DOWN TO 80% IDENTITY FOR THE COMMERCIAL AND INTERFERENCE DATABASES.

PLEASE CALL ME IF YOU HAVE ANY QUESTIONS.

CRF6

Thanks mucho.
Patricia A. Duffy, Ph.D.
Art Unit 1645
Remsen 3B05; Mailbox 3C18
571-272-0855

Point of Contact:
Alexandra Waclawiw
Technical Info. Specialist
~~CM1 6A02 Tel: 308-4491~~

****
STAFF USE ONLY

Searcher:_____
Searcher Phone: 2-
Date Searcher Picked up: 4-7-05
Date Completed:_____ 4-11-05
Searcher Prep/Rev. Time: 12
Online Time:_____
12

****
Type of Search

NA#:_____ AA#: 2
Interference:____ SPDI:___
S/L:_____ Oligomer:____
Encode/Transl:_____
Structure#:_____ Text:___
Inventor:____ Litigation:___

****
Vendors and cost where applicable
STN:_____
DIALOG:_____
QUESTEL/ORBIT:_____
LEXIS/NEXIS:_____
SEQUENCE SYSTEM:_____
WWW/Internet:_____
Other(Specify): Compugen

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 11, 2005, 07:00:50 ; Search time 23.3276 Seconds
(without alignments)
357.878 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 296408 seqs, 67873479 residues

Total number of hits satisfying chosen parameters: 296408

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New:*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US11_NEW_COMB.pep:*
8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	641	100.0	249	7	US-11-054-515-327	Sequence 327, App
2	626	97.7	249	7	US-11-054-515-785	Sequence 785, App
3	622	97.0	249	7	US-11-054-515-527	Sequence 527, App
4	622	97.0	249	7	US-11-054-515-684	Sequence 684, App
5	622	97.0	249	7	US-11-054-515-804	Sequence 804, App
6	621	96.9	249	7	US-11-054-515-660	Sequence 660, App
7	620	96.7	249	7	US-11-054-515-344	Sequence 344, App
8	620	96.7	249	7	US-11-054-515-363	Sequence 363, App
9	620	96.7	249	7	US-11-054-515-664	Sequence 664, App
10	619	96.6	249	7	US-11-054-515-590	Sequence 590, App
11	619	96.6	249	7	US-11-054-515-821	Sequence 821, App
12	618	96.4	249	7	US-11-054-515-324	Sequence 324, App
13	618	96.4	249	7	US-11-054-515-325	Sequence 325, App
14	618	96.4	249	7	US-11-054-515-596	Sequence 596, App
15	618	96.4	249	7	US-11-054-515-701	Sequence 701, App
16	617	96.3	249	7	US-11-054-515-366	Sequence 366, App
17	617	96.3	249	7	US-11-054-515-404	Sequence 404, App
18	617	96.3	249	7	US-11-054-515-486	Sequence 486, App
19	617	96.3	249	7	US-11-054-515-723	Sequence 723, App
20	617	96.3	249	7	US-11-054-515-743	Sequence 743, App
21	616	96.1	249	7	US-11-054-515-375	Sequence 375, App
22	616	96.1	249	7	US-11-054-515-399	Sequence 399, App
23	616	96.1	249	7	US-11-054-515-696	Sequence 696, App
24	616	96.1	249	7	US-11-054-515-698	Sequence 698, App
25	616	96.1	249	7	US-11-054-515-709	Sequence 709, App
26	616	96.1	249	7	US-11-054-515-713	Sequence 713, App
27	616	96.1	249	7	US-11-054-515-729	Sequence 729, App
28	615	95.9	249	7	US-11-054-515-415	Sequence 415, App
29	615	95.9	249	7	US-11-054-515-428	Sequence 428, App
30	615	95.9	249	7	US-11-054-515-644	Sequence 644, App
31	615	95.9	249	7	US-11-054-515-655	Sequence 655, App
32	615	95.9	249	7	US-11-054-515-722	Sequence 722, App
33	615	95.9	249	7	US-11-054-515-748	Sequence 748, App
34	615	95.9	249	7	US-11-054-515-765	Sequence 765, App
35	615	95.9	249	7	US-11-054-515-786	Sequence 786, App
36	615	95.9	249	7	US-11-054-515-789	Sequence 789, App
37	615	95.9	249	7	US-11-054-515-794	Sequence 794, App
38	614	95.8	249	7	US-11-054-515-322	Sequence 322, App
39	614	95.8	249	7	US-11-054-515-329	Sequence 329, App
40	614	95.8	249	7	US-11-054-515-433	Sequence 433, App
41	614	95.8	249	7	US-11-054-515-461	Sequence 461, App
42	614	95.8	249	7	US-11-054-515-574	Sequence 574, App
43	614	95.8	249	7	US-11-054-515-652	Sequence 652, App
44	614	95.8	249	7	US-11-054-515-717	Sequence 717, App
45	614	95.8	249	7	US-11-054-515-744	Sequence 744, App

ALIGNMENTS

RESULT 1
US-11-054-515-327
; Sequence 327, Application US/11054515
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
; FILE REFERENCE: PF523P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 327
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-327

Query Match 100.0%; Score 641; DB 7; Length 249;
Best Local Similarity 100.0%; Pred. No. 3.6e-38;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
```

```
Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 2
US-11-054-515-785
; Sequence 785, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 785
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-785

  Query Match             97.7%;  Score 626;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 4e-37;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||| | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLEPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 3
US-11-054-515-527
; Sequence 527, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 527
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-527

  Query Match             97.0%;  Score 622;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 7.7e-37;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||| | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPQHPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 4
US-11-054-515-684
; Sequence 684, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 684
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;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-684

  Query Match             97.0%;  Score 622;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 7.7e-37;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHEPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 5
US-11-054-515-804
; Sequence 804, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 804
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-804

  Query Match             97.0%;  Score 622;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 7.7e-37;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHALDVWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 6
US-11-054-515-660
; Sequence 660, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 660
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-660

  Query Match             96.9%;  Score 621;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 9e-37;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHDPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 7
US-11-054-515-344
; Sequence 344, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
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;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 344
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-344

  Query Match             96.7%;  Score 620;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.1e-36;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHAPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 8
US-11-054-515-363
; Sequence 363, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 363
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-363

  Query Match             96.7%;  Score 620;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.1e-36;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHSYLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 9
US-11-054-515-664
; Sequence 664, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 664
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-664

  Query Match             96.7%;  Score 620;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.1e-36;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHAPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123
```

```
RESULT 10
US-11-054-515-590
; Sequence 590, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 590
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-590

  Query Match             96.6%;  Score 619;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.2e-36;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||| || ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLSFWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 11
US-11-054-515-821
; Sequence 821, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 821
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-821

  Query Match             96.6%;  Score 619;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.2e-36;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||| |||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHANLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 12
US-11-054-515-324
; Sequence 324, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 324
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-324

  Query Match             96.4%;  Score 618;  DB 7;  Length 249;
```

```
  Best Local Similarity   96.7%;  Pred. No. 1.5e-36;
  Matches  119;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||| |  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHGLDVWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 13
US-11-054-515-325
; Sequence 325, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 325
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-325

  Query Match             96.4%;  Score 618;  DB 7;  Length 249;
  Best Local Similarity   96.7%;  Pred. No. 1.5e-36;
  Matches  119;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||:|  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHSLDLWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 14
US-11-054-515-596
; Sequence 596, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 596
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-596

  Query Match             96.4%;  Score 618;  DB 7;  Length 249;
  Best Local Similarity   96.7%;  Pred. No. 1.5e-36;
  Matches  119;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  |:||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHDPLAPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 15
US-11-054-515-701
; Sequence 701, Application US/11054515
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P3
;  CURRENT APPLICATION NUMBER: US/11/054,515
;  CURRENT FILING DATE:  2005-02-10
;  PRIOR APPLICATION NUMBER: 60/543,296
;  PRIOR FILING DATE: 2004-02-11
;  PRIOR APPLICATION NUMBER: 60/580,347
;  PRIOR FILING DATE: 2004-06-18
;  PRIOR APPLICATION NUMBER: 10/293,418
;  PRIOR FILING DATE: 2002-11-14
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
```

```
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 701
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-11-054-515-701

  Query Match            96.4%;  Score 618;  DB 7;  Length 249;
  Best Local Similarity  96.7%;  Pred. No. 1.5e-36;
  Matches  119;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||| |  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLDSWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


Search completed: April 11, 2005, 07:18:22
Job time : 23.3276 secs
```

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 11, 2005, 06:35:43 ; Search time 125.651 Seconds
(without alignments)
501.276 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	439.5	68.6	116	2	Q9UL89	Q9ul89 homo sapien
2	432	67.4	120	2	Q6NSA4	Q6nsa4 homo sapien
3	428	66.8	480	2	Q6PJF1	Q6pjf1 homo sapien
4	421	65.7	117	1	HV1A_HUMAN	P01742 homo sapien
5	415	64.7	208	2	Q6ZP87	Q6zp87 homo sapien
6	412	64.3	500	2	Q6N091	Q6n091 homo sapien
7	409.5	63.9	159	2	Q96QS0	Q96qs0 homo sapien
8	391.5	61.1	124	2	Q9UL92	Q9ul92 homo sapien
9	387.5	60.5	498	2	Q6N041	Q6n041 homo sapien
10	385.5	60.1	496	2	Q96DK0	Q96dk0 homo sapien
11	385	60.1	119	2	Q9UL94	Q9ul94 homo sapien
12	379	59.1	244	2	Q65ZC8	Q65zc8 homo sapien
13	378	59.0	125	2	Q9UL95	Q9ul95 homo sapien
14	376.5	58.7	518	2	Q6N030	Q6n030 homo sapien
15	374	58.3	119	2	Q9GYZ2	Q9gyz2 schistosoma
16	370	57.7	117	1	HV1B_HUMAN	P01743 homo sapien
17	365	56.9	497	2	Q8WY24	Q8wy24 homo sapien
18	364	56.8	473	2	Q9D8L4	Q9d8l4 mus musculu
19	362.5	56.6	147	1	HV1C_HUMAN	P01744 homo sapien
20	360.5	56.2	500	2	Q9BRV0	Q9brv0 homo sapien
21	360	56.2	480	2	Q6P089	Q6p089 homo sapien
22	357.5	55.8	145	2	Q924Q9	Q924q9 mus musculu
23	356	55.5	150	2	Q9Y298	Q9y298 homo sapien
24	355.5	55.5	463	2	Q99LC4	Q99lc4 mus musculu
25	355.5	55.5	613	2	Q8VCX7	Q8vcx7 mus musculu
26	353.5	55.1	145	2	Q924Q6	Q924q6 mus musculu
27	353.5	55.1	465	2	Q6PJB2	Q6pjb2 mus musculu
28	352	54.9	146	2	Q924Q3	Q924q3 mus musculu
29	348.5	54.4	475	2	Q6N095	Q6n095 homo sapien
30	346.5	54.1	482	2	Q8K172	Q8k172 mus musculu
31	345.5	53.9	143	2	Q924Q0	Q924q0 mus musculu
32	345	53.8	117	1	HV1G_HUMAN	P23083 homo sapien
33	345	53.8	614	2	Q7TMT6	Q7tmt6 mus musculu
34	344.5	53.7	118	2	Q9Z1C4	Q9z1c4 mus musculu
35	344.5	53.7	145	2	Q924P7	Q924p7 mus musculu
36	344	53.7	117	2	Q9QXE9	Q9qxe9 mus musculu
37	343.5	53.6	143	2	Q924R0	Q924r0 mus musculu
38	343.5	53.6	145	2	Q924R4	Q924r4 mus musculu
39	343	53.5	123	2	Q8VIJ1	Q8vij1 mus musculu
40	342.5	53.4	469	2	Q7Z7P5	Q7z7p5 homo sapien
41	342	53.4	142	2	Q924Q1	Q924q1 mus musculu
42	341.5	53.3	143	2	Q924Q5	Q924q5 mus musculu
43	341	53.2	120	1	HV03_MOUSE	P01747 mus musculu
44	340.5	53.1	145	2	Q924R1	Q924r1 mus musculu
45	340	53.0	146	2	Q924R8	Q924r8 mus musculu

ALIGNMENTS

RESULT 1
Q9UL89
ID Q9UL89 PRELIMINARY; PRT; 116 AA.
AC Q9UL89;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
DE (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035025; AAD56261.1; -.
DR PIR; PH0870; PH0870.
DR PIR; PH1671; PH1671.
DR HSSP; P01751; 1NQB.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGv; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1 1
FT NON_TER 116 116
SQ SEQUENCE 116 AA; 12605 MW; C8F9131DE13EA898 CRC64;

Query Match 68.6%; Score 439.5; DB 2; Length 116;
Best Local Similarity 74.6%; Pred. No. 3.1e-37;
Matches 88; Conservative 9; Mismatches 18; Indels 3; Gaps 1;

```
Qy          6 QSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKYSQNFQ 65
              |||||||||||||:||||||||||:: ||:|||||||||||||| |||: | | |:| ||
Db          2 QSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGRIIPILGIANYAQKFQ 61

Qy         66 GRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVTVSS 123
              ||| ||||:|| || |||||||||||||||| |       |:     |||||:|||||
Db         62 GRVTITADKSTSTAYMELSSLRSEDTAVYYCASSN---WGPYWYFDLWGRGTLVTVSS 116
```

RESULT 2
Q6NSA4
ID Q6NSA4 PRELIMINARY; PRT; 120 AA.
AC Q6NSA4;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Hypothetical protein.

```
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Pooled;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA   Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA   Jones S.J., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Pooled;
RA   Strausberg R.;
RL   Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; BC070333; AAH70333.1; -.
DR   HSSP; P01751; 1A6W.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
KW   Hypothetical protein.
SQ   SEQUENCE   120 AA;  13035 MW;  64620FAC874585D4 CRC64;

  Query Match             67.4%;  Score 432;  DB 2;  Length 120;
  Best Local Similarity   84.7%;  Pred. No. 1.9e-36;
  Matches   83;  Conservative    7;  Mismatches    8;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db         20 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR 98
              :| ||||| || |||| || |:||||||||||||||||
Db         80 TQKFQGRVTITTDESTSTAYMKLSSLRSEDTAVYYCAR 117


RESULT 3
Q6PJF1
ID   Q6PJF1      PRELIMINARY;      PRT;   480 AA.
AC   Q6PJF1;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Hypothetical protein.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Lung;
RX   MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA   Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA   Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA   Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA   Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA   Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA   Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA   Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA   Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA   Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA   Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA   Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA   Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA   Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA   Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA   Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA   Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA   Jones S.J., Marra M.A.;
RT   "Generation and initial analysis of more than 15,000 full-length human
RT   and mouse cDNA sequences.";
RL   Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN   [2]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Lung;
RA   Strausberg R.;
RL   Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; BC016381; AAH16381.1; -.
DR   HSSP; P01861; 1ADQ.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003006; Ig_MHC.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 3.
DR   SMART; SM00409; IG; 2.
DR   SMART; SM00407; IGc1; 3.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 4.
DR   PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW   Hypothetical protein.
SQ   SEQUENCE   480 AA;  52586 MW;  64DC641AE47CD6C8 CRC64;

  Query Match             66.8%;  Score 428;  DB 2;  Length 480;
  Best Local Similarity   66.9%;  Pred. No. 2.3e-35;
  Matches   89;  Conservative   10;  Mismatches   22;  Indels   12;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:  :  |:|||||||||| |||||||  |   ||
Db         20 QVQLVQSGAEVKKPGSSVKVSCKASGGSPGSFVISWVRQAPGQGLAWMGGIIPAFDITKY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLF----------PHHAL 110
              :|||| || |:||||| || ||| |||||||| |||| ||| |:          :: |
Db         80 AQNFQDRVTISADESTDTAYMELRSLRSEDTATYYCA--RDLALYELWSGFHTDEKYYGL 137

Qy        111 SPWGRGTMVTVSS 123
                ||:|| |||||
Db        138 DVWGQGTPVTVSS 150


RESULT 4
HV1A_HUMAN
ID   HV1A_HUMAN     STANDARD;      PRT;   117 AA.
AC   P01742;
DT   21-JUL-1986 (Rel. 01, Created)
DT   21-JUL-1986 (Rel. 01, Last sequence update)
DT   05-JUL-2004 (Rel. 44, Last annotation update)
DE   Ig heavy chain V-I region EU.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE.
RX   MEDLINE=71064024; PubMed=5489771;
RA   Cunningham B.A., Rutishauser U., Gall W.E., Gottlieb P.D.,
RA   Waxdal M.J., Edelman G.M.;
```

```
RT   "The covalent structure of a human gamma G-immunoglobulin. VII. Amino
RT   acid sequence of heavy-chain cyanogen bromide fragments H1-H4.";
RL   Biochemistry 9:3161-3170(1970).
RN   [2]
RP   DISULFIDE BOND.
RX   MEDLINE=71064027; PubMed=4923144;
RA   Gall W.E., Edelman G.M.;
RT   "The covalent structure of a human gamma G-immunoglobulin. X.
RT   Intrachain disulfide bonds.";
RL   Biochemistry 9:3188-3196(1970).
CC   -!- MISCELLANEOUS: The sequence of the gamma-1 C region of this
CC       myeloma protein has also been determined.
CC   -!- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR   PIR; A90563; G1HUEU.
DR   HSSP; P01751; 1A6W.
DR   GO; GO:0005576; C:extracellular; NAS.
DR   GO; GO:0003823; F:antigen binding; NAS.
DR   GO; GO:0006955; P:immune response; NAS.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF00047; ig; 1.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
KW   Direct protein sequencing; Immunoglobulin V region;
KW   Pyrrolidone carboxylic acid.
FT   DOMAIN        1    112       Ig-like.
FT   MOD_RES       1      1       Pyrrolidone carboxylic acid.
FT   DISULFID     22     96
FT   NON_TER     117    117
SQ   SEQUENCE   117 AA;  12472 MW;  99D60ADAEBD52818 CRC64;

  Query Match             65.7%;  Score 421;  DB 1;  Length 117;
  Best Local Similarity   71.0%;  Pred. No. 2.5e-35;
  Matches   88;  Conservative    8;  Mismatches   20;  Indels    8;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||||: :|| ||||||||||||||||:||||   |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSRSAIIWVRQAPGQGLEWMGGIVPMFGPPNY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWG-RGTMV 119
              :| ||||| ||||||| || ||||||||||| |:||         :   ||    | :|
Db         61 AQKFQGRVTITADESTNTAYMELSSLRSEDTAFYFCAGG-------YGIYSPEEYNGGLV 113

Qy        120 TVSS 123
              ||||
Db        114 TVSS 117


RESULT 5
Q6ZP87
ID   Q6ZP87      PRELIMINARY;      PRT;   208 AA.
AC   Q6ZP87;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Hypothetical protein FLJ26266.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Dermoid tumor;
RA   Ota T., Nakagawa S., Senoh A., Mizuguchi H., Inagaki H., Suzuki Y.,
RA   Hata H., Nakagawa K., Mizuno S., Morinaga M., Kawamura M.,
RA   Sugiyama T., Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A.,
RA   Kawakami B., Nagai K., Isogai T., Sugano S.;
RL   Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AK129777; BAC85233.1; -.
DR   HSSP; P01857; 1AJ7.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 1.
DR   SMART; SM00409; IG; 1.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 2.
SQ   SEQUENCE   208 AA;  22226 MW;  294566F7ABEE3F2C CRC64;

  Query Match             64.7%;  Score 415;  DB 2;  Length 208;
  Best Local Similarity   66.7%;  Pred. No. 1.9e-34;
  Matches   82;  Conservative   13;  Mismatches   26;  Indels    2;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| ||| |||||||||||||| || ||:| |::||||| | ||||||||||:|||  |
Db         20 QVQLAQSGPEVKKPGSSVRVSCKVSGDTFSNYALSWVRQARGHGLEWMGGIIPVFGTTNY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| |||| |||| |  |  ||::|| |||||:|||| |::    :   |||:||:||
Db         80 AQKLQGRVTITADSSRTTVYMEVNSLTSEDTAIYYCA--REVYGSGPNWFDPWGQGTLVT 137

Qy        121 VSS 123
              |||
Db        138 VSS 140


RESULT 6
Q6N091
ID   Q6N091      PRELIMINARY;      PRT;   500 AA.
AC   Q6N091;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Hypothetical protein DKFZp686C02220 (Fragment).
GN   Name=DKFZp686C02220;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Human rectum tumor;
RG   The German Human cDNA Consortium;
RA   Wambutt R., Heubner D., Mewes H.W., Weil B., Amid C., Osanger A.,
RA   Fobo G., Han M., Wiemann S.;
RL   Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; BX640625; CAE45779.1; -.
DR   HSSP; P01751; 1A6W.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003006; Ig_MHC.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 2.
DR   SMART; SM00409; IG; 4.
DR   SMART; SM00407; IGc1; 3.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 4.
DR   PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW   Hypothetical protein.
FT   NON_TER       1      1
SQ   SEQUENCE   500 AA;  54160 MW;  3C423A17D65A41E4 CRC64;

  Query Match             64.3%;  Score 412;  DB 2;  Length 500;
  Best Local Similarity   65.0%;  Pred. No. 1e-33;
  Matches   80;  Conservative   15;  Mismatches   28;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||:||:|||||||  ||:::| |:|||||||||:| |    |   |
Db         38 QVQLVQSGAEVKKPGASVKVSCKASGYTFSDHSITWLRQAPGQGLEWIGWISAYSGQTYY 97

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :|| |||| :| | || || ||| ||||:||||||||: :     |: |   ||:|||||
Db         98 AQNLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCAKDQSYTTIPNDAFHIWGQGTMVT 157
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Qy        121 VSS 123
              |||
Db        158 VSS 160


RESULT 7
Q96QS0
ID   Q96QS0      PRELIMINARY;      PRT;   159 AA.
AC   Q96QS0;
DT   01-DEC-2001 (TrEMBLrel. 19, Created)
DT   01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT   01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE   Putative matrix cell adhesion molecule-3.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RA   Tilson M.D.;
RL   Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AY039025; AAK82649.1; -.
DR   HSSP; P01869; 1AE6.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
SQ   SEQUENCE   159 AA;  17497 MW;  5D29537E881FAF02 CRC64;

  Query Match             63.9%;  Score 409.5;  DB 2;  Length 159;
  Best Local Similarity   62.3%;  Pred. No. 5.2e-34;
  Matches   81;  Conservative   17;  Mismatches   25;  Indels    7;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||:||:|||||||  ||:|  :|||||||||| |||| | |  |:|:|
Db         20 QVQLVQSGAEVKKPGASVKVSCKASGYTFSNYYMNWVRQAPGQGPEWMGVINPSGGSARY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLL-------FPHHALSPW 113
              || ||||: :| | || |  |:||||||:|||||:|||  ::         | :: :  |
Db         80 SQKFQGRLTMTRDTSTSTVYMDLSSLRSDDTAVYFCAREMEITFGGAVSKGFYYYGMDVW 139

Qy        114 GRGTMVTVSS 123
              |:|| |||||
Db        140 GQGTTVTVSS 149


RESULT 8
Q9UL92
ID   Q9UL92      PRELIMINARY;      PRT;   124 AA.
AC   Q9UL92;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE   Myosin-reactive immunoglobulin heavy chain variable region
DE   (Fragment).
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA   Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA   Young D.C.;
RT   "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT   fetus.";
RL   Clin. Immunol. Immunopathol. 87:184-192(1998).
DR   EMBL; AF035022; AAD56258.1; -.
DR   HSSP; P01751; 1NQB.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
FT   NON_TER       1      1
FT   NON_TER     124    124
SQ   SEQUENCE   124 AA;  13580 MW;  1BAAACBD96ACD2A2 CRC64;

  Query Match             61.1%;  Score 391.5;  DB 2;  Length 124;
  Best Local Similarity   65.1%;  Pred. No. 2.8e-32;
  Matches   82;  Conservative   14;  Mismatches   25;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              :||| :|||||||||:||:|||||||  ||::  ::|||||||||||||| | |  |:  |
Db          1 EVQLVESGAEVKKPGASVKVSCKASGYTFSSYYMHWVRQAPGQGLEWMGIINPSGGSTSY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSP---WGRGT 117
              :| ||||| :| | || |  ||||||||||||||||||   | :     | |     ||:||
Db         61 AQKFQGRVTMTRDTSTSTVYMELSSLRSEDTAVYYCARG--LYVVVPAAFSRFDYWGQGT 118

Qy        118 MVTVSS 123
              :|||||
Db        119 LVTVSS 124


RESULT 9
Q6N041
ID   Q6N041      PRELIMINARY;      PRT;   498 AA.
AC   Q6N041;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Hypothetical protein DKFZp686O16217 (Fragment).
GN   Name=DKFZp686O16217;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Human rectum tumor;
RG   The German Human cDNA Consortium;
RA   Poustka A., Albert R., Moosmayer P., Schupp I., Wellenreuther R.,
RA   Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M., Wiemann S.;
RL   Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; BX640710; CAE45829.1; -.
DR   HSSP; P01751; 1A6W.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003006; Ig_MHC.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 2.
DR   SMART; SM00409; IG; 4.
DR   SMART; SM00407; IGc1; 3.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 4.
DR   PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW   Hypothetical protein.
FT   NON_TER       1      1
SQ   SEQUENCE   498 AA;  54125 MW;  40B3208A84E03B46 CRC64;

  Query Match             60.5%;  Score 387.5;  DB 2;  Length 498;
  Best Local Similarity   62.0%;  Pred. No. 3.4e-31;
  Matches   80;  Conservative   15;  Mismatches   23;  Indels   11;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||:|||||:||:||||||| || |   :|||||||| |||| | |  |: ||
Db         35 QVQLVQSGADVKKPGASVKVSCKASGYTFTNYFFHWVRQAPGQGPEWMGMINPRDGSTKY 94

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSP------WG 114
              :| |||||::| | || |  |||||||||||:::|||:      | :  |       ||
Db         95 AQRFQGRVSMTRDTSTSTIYMELSSLRSEDTAMFFCARAG-----PGYGTSASYYFDYWG 149

Qy        115 RGTMVTVSS 123
              :||:|||||
Db        150 QGTLVTVSS 158
```

```
RESULT 10
Q96DK0
ID   Q96DK0      PRELIMINARY;      PRT;   496 AA.
AC   Q96DK0;
DT   01-DEC-2001 (TrEMBLrel. 19, Created)
DT   01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT   01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE   Hypothetical protein FLJ25298.
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Stomach mucosa;
RA   Ishibashi T., Kanehori K., Yosida M., Watanabe S., Ishida S., Ono Y.,
RA   Hotuta T., Hiraoka S., Murakawa K., Takiguchi S., Kusano J.,
RA   Watanabe M., Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y.,
RA   Suzuki Y., Hata H., Nakagawa K., Mizuno S., Morinaga M., Kawamura M.,
RA   Sugiyama T., Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A.,
RA   Kawakami B., Nagai K., Isogai T., Sugano S.;
RL   Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AK058027; BAB71633.1; -.
DR   HSSP; P01876; 1OW0.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003006; Ig_MHC.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 2.
DR   Pfam; PF00047; ig; 1.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 4.
DR   PROSITE; PS00290; IG_MHC; UNKNOWN_1.
SQ   SEQUENCE   496 AA;  53532 MW;  C72EE1E247C86FED CRC64;

  Query Match             60.1%;  Score 385.5;  DB 2;  Length 496;
  Best Local Similarity   61.9%;  Pred. No. 5.4e-31;
  Matches   78;  Conservative   13;  Mismatches   30;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||.| |||||:| |||||:||||||   | : |  ||||||||||:||||||| ||    |
Db         20 QVHLVQSGAELKMPGSSVKVSCKASANMFRSYAFTWVRQAPGQGLQWMGGIIPNFGAPNY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLF---PHHALSPWGRGT 117
              :|||| || |:||:|| |  |||:||  |||| ||| |   | :    :: |  ||:||
Db         80 AQNFQDRVTISADDSTTTVYMELTSLTFEDTAFYYCGRG--LTYYGSGSYYYLQHWGQGT 137

Qy        118 MVTVSS 123
              :|||||
Db        138 LVTVSS 143


RESULT 11
Q9UL94
ID   Q9UL94      PRELIMINARY;      PRT;   119 AA.
AC   Q9UL94;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE   Myosin-reactive immunoglobulin heavy chain variable region
DE   (Fragment).
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA   Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA   Young D.C.;
RT   "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT   fetus.";
RL   Clin. Immunol. Immunopathol. 87:184-192(1998).
DR   EMBL; AF035020; AAD56256.1; -.
DR   HSSP; P01751; 1NQB.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
FT   NON_TER       1       1
FT   NON_TER     119     119
SQ   SEQUENCE   119 AA;  13205 MW;  13E64F5345F4A16E CRC64;

  Query Match             60.1%;  Score 385;  DB 2;  Length 119;
  Best Local Similarity   63.4%;  Pred. No. 1.2e-31;
  Matches   78;  Conservative   13;  Mismatches   28;  Indels    4;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              :||| :|||||||||:||:|||||| ||    ::|||||||||||||| | |   | |
Db          1 EVQLVESGAEVKKPGASVKVSCKASGYTFTGYYMHWVRQAPGQGLEWMGWINPNSWTTNY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| |||:| :| | |  || |||| |||:|||||||||      |:      |||:||:||
Db         61 AQKFQGKVTMTKDTSISTAYMELSRLRSDDTAVYYCARGGGRGLW----FDPWGQGTLVT 116

Qy        121 VSS 123
              |||
Db        117 VSS 119


RESULT 12
Q65ZC8
ID   Q65ZC8      PRELIMINARY;      PRT;   244 AA.
AC   Q65ZC8;
DT   25-OCT-2004 (TrEMBLrel. 28, Created)
DT   25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT   25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE   Single-chain Fv (Fragment).
GN   Name=scFv;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=97362799; PubMed=9219263;
RA   Kontermann R.E., Wing M.G., Winter G.;
RT   "Complement recruitment using bispecific diabodies.";
RL   Nat. Biotechnol. 15:629-631(1997).
DR   EMBL; Y13057; CAA73500.1; -.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF00047; ig; 2.
DR   SMART; SM00409; IG; 2.
DR   SMART; SM00406; IGv; 2.
DR   PROSITE; PS50835; IG_LIKE; 2.
FT   NON_TER       1       1
FT   NON_TER     244     244
SQ   SEQUENCE   244 AA;  26127 MW;  4B1F17868338F2BF CRC64;

  Query Match             59.1%;  Score 379;  DB 2;  Length 244;
  Best Local Similarity   61.8%;  Pred. No. 1.1e-30;
  Matches   76;  Conservative   16;  Mismatches   29;  Indels    2;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||| ||:||||||| ||::: ::|||||||||||||| | |   | ::
Db          1 QVQLVQSGAEVKKPGDSVKVSCKASGYTFSDHYMHWVRQAPGQGLEWMGWIDPNNGDTRF 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| :| | |   | ||:| |||:|||||||||         : :  ||:||:||
Db         61 AQRFQGRVTMTRDTSISAAYMEVSRLRSDDTAVYYCAREGTGSAI--YGMDVWGQGTLVT 118

Qy        121 VSS 123
```

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                ||||
Db        119 VSS 121


RESULT 13
Q9UL95
ID   Q9UL95      PRELIMINARY;      PRT;   125 AA.
AC   Q9UL95;
DT   01-MAY-2000 (TrEMBLrel. 13, Created)
DT   01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT   01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE   Myosin-reactive immunoglobulin heavy chain variable region
DE   (Fragment).
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RX   MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
RA   Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA   Young D.C.;
RT   "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT   fetus.";
RL   Clin. Immunol. Immunopathol. 87:184-192(1998).
DR   EMBL; AF035019; AAD56255.1; -.
DR   HSSP; P01751; 1NQB.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
FT   NON_TER       1      1
FT   NON_TER     125    125
SQ   SEQUENCE   125 AA;  13516 MW;  0D3CD5C232488EAC CRC64;

  Query Match             59.0%;  Score 378;  DB 2;  Length 125;
  Best Local Similarity   62.4%;  Pred. No. 6.9e-31;
  Matches   78;  Conservative   13;  Mismatches   32;  Indels    2;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              :||| :|||||||||:||:||||||| ||    ::|||||||||||||| | |  |   |
Db          1 EVQLVESGAEVKKPGASVKVSCKASGYTFTGYYMHWVRQAPGQGLEWMGWINPNSGGTNY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSR--DLLLFPHHALSPWGRGTM 118
              :|  |||| :| | :  || |||| |||:||||||||:    :     |   ||:|||
Db         61 AQKVQGRVTMTRDTTISTAYMELSRLRSDDTAVYYCARSQGGGRIAAAGDAFDIWGQGTM 120

Qy        119 VTVSS 123
              |||||
Db        121 VTVSS 125


RESULT 14
Q6N030
ID   Q6N030      PRELIMINARY;      PRT;   518 AA.
AC   Q6N030;
DT   05-JUL-2004 (TrEMBLrel. 27, Created)
DT   05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT   05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE   Hypothetical protein DKFZp686I15212.
GN   Name=DKFZp686I15212;
OS   Homo sapiens (Human).
OC   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX   NCBI_TaxID=9606;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   TISSUE=Human rectum tumor;
RG   The German Human cDNA Consortium;
RA   Poustka A., Albert R., Moosmayer P., Schupp I., Wellenreuther R.,
RA   Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M., Wiemann S.;
RL   Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; BX640724; CAE45841.1; -.
DR   HSSP; P01861; 1ADQ.
DR   InterPro; IPR000005; HTHAraC.
DR   InterPro; IPR003599; Ig.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003597; Ig_c1.
DR   InterPro; IPR003006; Ig_MHC.
DR   InterPro; IPR003596; Ig_v.
DR   Pfam; PF07654; C1-set; 3.
DR   SMART; SM00409; IG; 3.
DR   SMART; SM00407; IGc1; 3.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS00041; HTH_ARAC_FAMILY_1; UNKNOWN_1.
DR   PROSITE; PS50835; IG_LIKE; 4.
DR   PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW   Hypothetical protein.
SQ   SEQUENCE   518 AA;  57019 MW;  93B5F98613BF6382 CRC64;

  Query Match             58.7%;  Score 376.5;  DB 2;  Length 518;
  Best Local Similarity   63.8%;  Pred. No. 4.8e-30;
  Matches   81;  Conservative    8;  Mismatches   29;  Indels    9;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              || | ||||||||||:||:||| |||   | |:|||||||||| |||||  |     |  ||
Db         20 QVHLVQSGAEVKKPGASVKVSCTASGYPFTNHFINWVRQAPGQSLEWMGWINTGNGNTKY 79

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSP----WGRG 116
              || ||||| || |  | || |:|||||||||||||:|||       |    :     ||:|
Db         80 SQKFQGRVTITRDTWTTTAYMDLSSLRSEDTAVYWCARDA-----PQGVTTTYFDYWGQG 134

Qy        117 TMVTVSS 123
              |:|||||
Db        135 TLVTVSS 141


RESULT 15
Q9GYZ2
ID   Q9GYZ2      PRELIMINARY;      PRT;   119 AA.
AC   Q9GYZ2;
DT   01-MAR-2001 (TrEMBLrel. 16, Created)
DT   01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT   01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE   Monoclonal anti-idiotypic antibody NP30 heavy chain variable region
DE   (Fragment).
OS   Schistosoma japonicum (Blood fluke).
OC   Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigeidida;
OC   Schistosomatoidea; Schistosomatidae; Schistosoma.
OX   NCBI_TaxID=6182;
RN   [1]
RP   SEQUENCE FROM N.A.
RA   Song X.T., Feng Z.Q., Guan X.H.;
RL   Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
DR   EMBL; AF282622; AAG01452.1; -.
DR   HSSP; P01751; 1A6W.
DR   InterPro; IPR007110; Ig-like.
DR   InterPro; IPR003596; Ig_v.
DR   SMART; SM00406; IGv; 1.
DR   PROSITE; PS50835; IG_LIKE; 1.
FT   NON_TER       1      1
FT   NON_TER     119    119
SQ   SEQUENCE   119 AA;  13567 MW;  BA893873FD5FA6AB CRC64;

  Query Match             58.3%;  Score 374;  DB 2;  Length 119;
  Best Local Similarity   61.8%;  Pred. No. 1.7e-30;
  Matches   76;  Conservative   13;  Mismatches   30;  Indels    4;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| :|||||:|||:|||||||||| ||    :|||||||| ||||:| | |  |   |
Db          1 QVQLVESGAEVRKPGASVRVSCKASGYTFTGYYMNWVRQAPGHGLEWIGYINPSRGYTNY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| |: || :| |:|  || |:| |||| |:|||||||  |     |: |  ||:|| ||
Db         61 NQKFKDRVTMTTDKSFSTAYMDLRSLRSADSAVYYCARYYD----DHYCLDYWGQGTTVT 116
```

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Qy        121 VSS 123
              |||
Db        117 VSS 119
```

Search completed: April 11, 2005, 06:56:24
Job time : 127.651 secs

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OM protein - protein search, using sw model

Run on: April 11, 2005, 06:37:13 ; Search time 28.0991 Seconds
(without alignments)
421.175 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	482.5	75.3	116	2	PH0959	Ig heavy chain V r
2	481	75.0	135	2	PH0953	Ig heavy chain V r
3	480	74.9	119	2	PH0961	Ig heavy chain V r
4	478.5	74.6	122	2	PH0958	Ig heavy chain V r
5	478	74.6	125	2	PH0957	Ig heavy chain V r
6	476.5	74.3	132	2	S46394	Ig heavy chain V r
7	476	74.3	129	2	A33548	Ig heavy chain V-1
8	475	74.1	127	2	PH0955	Ig heavy chain V r
9	474.5	74.0	120	2	PH0962	Ig heavy chain V r
10	474.5	74.0	132	2	PH0954	Ig heavy chain V r
11	472.5	73.7	128	2	PH0952	Ig heavy chain V r
12	472	73.6	133	2	C33548	Ig heavy chain V-1
13	472	73.6	627	2	S14683	Ig mu chain precur
14	471.5	73.6	126	2	B33548	Ig heavy chain V-1
15	471.5	73.6	136	2	PH0960	Ig heavy chain V r
16	465	72.5	122	2	B49590	Ig heavy chain V r
17	445.5	69.5	116	2	S36261	Ig heavy chain V r
18	440	68.6	98	2	S26915	Ig heavy chain V r
19	440	68.6	113	2	PH1663	Ig heavy chain V r
20	440	68.6	116	2	S31698	Ig heavy chain pre
21	440	68.6	123	2	S44108	Ig heavy chain V-D
22	436.5	68.1	135	2	B32274	Ig heavy chain pre
23	436	68.0	98	2	S24680	Ig heavy chain V1
24	434.5	67.8	108	2	PH1664	Ig heavy chain V r
25	431.5	67.3	119	2	S44106	Ig heavy chain V-D
26	421	65.7	117	1	G1HUEU	Ig heavy chain V-I
27	415	64.7	98	2	A30523	Ig heavy chain V-I
28	414	64.6	121	2	A49590	Ig heavy chain V r
29	412	64.3	98	2	S46463	Ig heavy chain V1
30	410	64.0	109	2	PH1671	Ig heavy chain V r
31	410	64.0	122	2	C49590	Ig heavy chain V r
32	407	63.5	116	2	S31667	Ig heavy chain V r
33	404	63.0	97	2	PH0870	Ig heavy chain V r
34	402.5	62.8	118	2	S36265	Ig heavy chain V r
35	401.5	62.6	124	2	S19665	Ig heavy chain V r
36	400.5	62.5	136	2	S31600	Ig heavy chain V r
37	397	61.9	142	2	A32483	Ig heavy chain V r
38	396	61.8	129	2	S36260	Ig heavy chain V r
39	394.5	61.5	119	2	F49590	Ig heavy chain V r
40	392.5	61.2	135	2	S49530	anti-Sm antibody V
41	387	60.4	123	2	D33548	Ig heavy chain V-1
42	382	59.6	121	2	S20783	Ig heavy chain V r
43	382	59.6	127	2	S34014	Ig heavy chain V r
44	380	59.3	148	2	S29257	Ig heavy chain V r
45	374.5	58.4	114	2	PH1667	Ig heavy chain V r

ALIGNMENTS

RESULT 1
PH0959
Ig heavy chain V region (G6+ T-L26) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0959
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0959
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-116 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-104/Region: complementarity-determining 3

Query Match 75.3%; Score 482.5; DB 2; Length 116;
Best Local Similarity 77.2%; Pred. No. 2.5e-37;
Matches 95; Conservative 9; Mismatches 12; Indels 7; Gaps 1;

```
Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| ||||||| || |||||||||||||||||          :   |||:||:||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARG-------DNWFDPWGQGTLVT 113

Qy        121 VSS 123
               |||
Db        114 VSS 116
```

RESULT 2
PH0953
Ig heavy chain V region (G6+ CLL-SIC) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0953
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0953

```
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-135 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-123/Region: complementarity-determining 3

  Query Match             75.0%;  Score 481;  DB 2;  Length 135;
  Best Local Similarity   74.8%;  Pred. No. 4e-37;
  Matches  101;  Conservative    6;  Mismatches   16;  Indels   12;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR---------SRDLLL---FPHH 108
              :| ||||| ||||||| || ||||||||||||||||          ||  ||   |
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARNGYCGGDCYSRWELLRFDFSED 120

Qy        109 ALSPWGRGTMVTVSS 123
              |   || ||||||||
Db        121 AFDIWGPGTMVTVSS 135


RESULT 3
PH0961
Ig heavy chain V region (G6+ T-L33) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0961
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0961
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-119 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-107/Region: complementarity-determining 3

  Query Match             74.9%;  Score 480;  DB 2;  Length 119;
  Best Local Similarity   76.4%;  Pred. No. 4.3e-37;
  Matches   94;  Conservative   11;  Mismatches   14;  Indels    4;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| ||||||| || ||||||||||||||||      : :: :  ||:|| ||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARG----YYYYYGMDVWGQGTTVT 116

Qy        121 VSS 123
              |||
Db        117 VSS 119


RESULT 4
PH0958
```



```
Ig heavy chain V region (G6+ CLL-HUR) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0958
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0958
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-122 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-110/Region: complementarity-determining 3

  Query Match             74.6%;  Score 478.5;  DB 2;  Length 122;
  Best Local Similarity   78.0%;  Pred. No. 6.1e-37;
  Matches   96;  Conservative    9;  Mismatches   17;  Indels    1;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| ||||||| || ||||||||||||||||  : | |    :  ||:|| ||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARVPNPLFFA-VGMDVWGQGTTVT 119

Qy        121 VSS 123
              |||
Db        120 VSS 122


RESULT 5
PH0957
Ig heavy chain V region (G6+ CLL-BRA) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0957
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0957
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-125 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-113/Region: complementarity-determining 3

  Query Match             74.6%;  Score 478;  DB 2;  Length 125;
  Best Local Similarity   77.8%;  Pred. No. 6.9e-37;
  Matches   98;  Conservative    7;  Mismatches   17;  Indels    4;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAINWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR---SRDLLLFPHHALSPWGRGT 117
              :| ||||| ||||||| || ||||||||||||||||||   |      |      |||:||
```

```
Db         61 AQKFQGRVTITADESTNTAYMELSSLRSEDTAVYYCARDGCSGGSCYF-WGWFDPWGQGT 119

Qy        118 MVTVSS 123
              :|||||
Db        120 LVTVSS 125


RESULT 6
S46394
Ig heavy chain V region - human
C;Species: Homo sapiens (man)
C;Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 20-Jun-2000
C;Accession: S46394
R;Figini, M.; Marks, J.D.; Winter, G.; Griffiths, A.D.
J. Mol. Biol. 239, 68-78, 1994
A;Title: In vitro assembly of repertoires of antibody chains on the surface of phage by
A;Reference number: S46390; MUID:94254092; PMID:8196048
A;Accession: S46394
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-132 <FIG>
A;Cross-references: EMBL:Z31681; NID:g509788; PIDN:CAA83486.1; PID:g1335147
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>

  Query Match             74.3%;  Score 476.5;  DB 2;  Length 132;
  Best Local Similarity   72.0%;  Pred. No. 1e-36;
  Matches   95;  Conservative   14;  Mismatches   14;  Indels    9;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| :
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANH 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSR---------DLLLFPHHALS 111
              :| ||||| ||||||| || ||||||||||||||||::         : |   :: :
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARTQLPAADTGILEWLPSYYYYMD 120

Qy        112 PWGRGTMVTVSS 123
              ||:||||||||
Db        121 VWGKGTMVTVSS 132


RESULT 7
A33548
Ig heavy chain V-1 region (NEI) - human
C;Species: Homo sapiens (man)
C;Date: 17-Jan-1990 #sequence_revision 17-Jan-1990 #text_change 16-Aug-1996
C;Accession: A33548; PH0956
R;Kipps, T.J.; Tomhave, E.; Pratt, L.F.; Duffy, S.; Chen, P.P.; Carson, D.A.
Proc. Natl. Acad. Sci. U.S.A. 86, 5913-5917, 1989
A;Title: Developmentally restricted immunoglobulin heavy chain variable region gene expr
A;Reference number: A33548; MUID:89345575; PMID:2503826
A;Accession: A33548
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-129 <KIP>
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0956
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-129 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-117/Region: complementarity-determining 3

  Query Match             74.3%;  Score 476;  DB 2;  Length 129;
  Best Local Similarity   76.7%;  Pred. No. 1.1e-36;
  Matches   99;  Conservative    8;  Mismatches   16;  Indels    6;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLL---LFPHHALSP---WG 114
              :| ||||| ||||||| || ||||||||||||||||||    ||   |     ||    ||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARGPRLLADVLLWFGELSEFDYWG 120

Qy        115 RGTMVTVSS 123
              :||:|||||
Db        121 QGTLVTVSS 129


RESULT 8
PH0955
Ig heavy chain V region (G6+ CLL-AND) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0955
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0955
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-127 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-115/Region: complementarity-determining 3

  Query Match             74.1%;  Score 475;  DB 2;  Length 127;
  Best Local Similarity   74.8%;  Pred. No. 1.3e-36;
  Matches   95;  Conservative   10;  Mismatches   18;  Indels    4;  Gaps    1;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPH----HALSPWGRG 116
              :| ||||| ||||||| || ||||||||||||||||||     :  |    : :  ||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARVSIFGVVQHYYYYYYMDVWGKG 120

Qy        117 TMVTVSS 123
              | |||||
Db        121 TTVTVSS 127


RESULT 9
PH0962
Ig heavy chain V region (G6+ T-L42) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0962
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0962
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
```

```
A;Residues: 1-120 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-108/Region: complementarity-determining 3

  Query Match             74.0%;  Score 474.5;  DB 2;  Length 120;
  Best Local Similarity   78.0%;  Pred. No. 1.4e-36;
  Matches   96;  Conservative    9;  Mismatches   15;  Indels    3;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| ||||||| || |||||||||||||||||    :   ||     ||:||:||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARG-GVAGRPH--FDYWGQGTLVT 117

Qy        121 VSS 123
              |||
Db        118 VSS 120


RESULT 10
PH0954
Ig heavy chain V region (G6+ CLL-HEN) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0954
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0954
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-132 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-120/Region: complementarity-determining 3

  Query Match             74.0%;  Score 474.5;  DB 2;  Length 132;
  Best Local Similarity   72.0%;  Pred. No. 1.5e-36;
  Matches   95;  Conservative   12;  Mismatches   16;  Indels    9;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLL------LFP---HHALS 111
              :| ||||| ||||||| || |||||||||||||||||    :       :|   :: :
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARPHASIDDFWSGYYPNYYYYGMD 120

Qy        112 PWGRGTMVTVSS 123
              ||:|| |||||
Db        121 VWGQGTTVTVSS 132


RESULT 11
PH0952
Ig heavy chain V region (G6+ CLL-SMI) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0952
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0952
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-128 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-116/Region: complementarity-determining 3

  Query Match             73.7%;  Score 472.5;  DB 2;  Length 128;
  Best Local Similarity   71.9%;  Pred. No. 2.3e-36;
  Matches   97;  Conservative    8;  Mismatches   11;  Indels   19;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCA----------RSRDLLLFPHH 108
              :| ||||| ||||:|| || |||||||||||||||||          || |
Db         61 AQKFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARGGNYDYIWGSYRSND------- 113

Qy        109 ALSPWGRGTMVTVSS 123
              |   ||:||||||||
Db        114 AFDIWGQGTMVTVSS 128


RESULT 12
C33548
Ig heavy chain V-1 region (783) - human
C;Species: Homo sapiens (man)
C;Date: 17-Jan-1990 #sequence_revision 17-Jan-1990 #text_change 16-Aug-1996
C;Accession: C33548
R;Kipps, T.J.; Tomhave, E.; Pratt, L.F.; Duffy, S.; Chen, P.P.; Carson, D.A.
Proc. Natl. Acad. Sci. U.S.A. 86, 5913-5917, 1989
A;Title: Developmentally restricted immunoglobulin heavy chain variable region gene expre
A;Reference number: A33548; MUID:89345575; PMID:2503826
A;Accession: C33548
A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual trar
A;Molecule type: DNA
A;Residues: 1-133 <KIP>
A;Experimental source: the sequence was determined from the differentiated gene
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>

  Query Match             73.6%;  Score 472;  DB 2;  Length 133;
  Best Local Similarity   70.4%;  Pred. No. 2.6e-36;
  Matches   95;  Conservative   13;  Mismatches   13;  Indels   14;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFP----------HH 108
              :| ||||| ||||||| || |||||||||||||||||::   :| |           ::
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCAKTG--ILGPYSSGWYPNSDYYYY 118

Qy        109 ALSPWGRGTMVTVSS 123
              :  ||:|| |||||
Db        119 GMDVWGQGTTVTVSS 133
```

RESULT 13
S14683
Ig mu chain precursor, membrane-bound (clone 201) - human
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 #text_change 23-Jul-1999
C;Accession: S14683; S08047
R;Friedlander, R.M.; Nussenzweig, M.C.; Leder, P.
Nucleic Acids Res. 18, 4278, 1990
A;Title: Complete nucleotide sequence of the membrane form of the human IgM heavy chain.
A;Reference number: S14683; MUID:90332450; PMID:2115996
A;Accession: S14683
A;Molecule type: mRNA
A;Residues: 1-627 <FRI>
A;Cross-references: EMBL:X17115; NID:g33450; PIDN:CAA34971.1; PID:g33451
C;Superfamily: immunoglobulin C region; immunoglobulin homology
C;Keywords: immunoglobulin; membrane protein
F;1-15/Domain: signal sequence #status predicted <SIG>
F;16-627/Product: Ig mu chain #status predicted <MAT>
F;34-117/Domain: immunoglobulin homology <IMM>

Query Match 73.6%; Score 472; DB 2; Length 627;
Best Local Similarity 70.4%; Pred. No. 1.3e-35;
Matches 95; Conservative 13; Mismatches 13; Indels 14; Gaps 2;

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Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFP-----------HH 108
              :| ||||| ||||||| || ||||||||||||||||::   :| |           ::
Db         80 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCAKTG--ILGPYSSGWYPNSDYYY 137

Qy        109 ALSPWGRGTMVTVSS 123
               :. ||:|| |||||
Db        138 GMDVWGQGTTVTVSS 152
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RESULT 14
B33548
Ig heavy chain V-1 region (AND) - human
C;Species: Homo sapiens (man)
C;Date: 17-Jan-1990 #sequence_revision 17-Jan-1990 #text_change 16-Aug-1996
C;Accession: B33548
R;Kipps, T.J.; Tomhave, E.; Pratt, L.F.; Duffy, S.; Chen, P.P.; Carson, D.A.
Proc. Natl. Acad. Sci. U.S.A. 86, 5913-5917, 1989
A;Title: Developmentally restricted immunoglobulin heavy chain variable region gene expr
A;Reference number: A33548; MUID:89345575; PMID:2503826
A;Accession: B33548
A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra
A;Molecule type: DNA
A;Residues: 1-126 <KIP>
A;Experimental source: the sequence was determined from the differentiated gene
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>

Query Match 73.6%; Score 471.5; DB 2; Length 126;
Best Local Similarity 75.4%; Pred. No. 2.7e-36;
Matches 95; Conservative 9; Mismatches 19; Indels 3; Gaps 1;

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Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPH---HALSPWGRGT 117
              :| ||||| ||||||| || ||||||||||||||||     :  |   : :  || ||
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Qy        118 MVTVSS 123
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Db        121 TVTVSS 126
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RESULT 15
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C;Species: Homo sapiens (man)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 16-Aug-1996
C;Accession: PH0960
R;Martin, T.; Duffy, S.F.; Carson, D.A.; Kipps, T.J.
J. Exp. Med. 175, 983-991, 1992
A;Title: Evidence for somatic selection of natural autoantibodies.
A;Reference number: PH0952; MUID:92202880; PMID:1552291
A;Accession: PH0960
A;Status: nucleic acid sequence not shown
A;Molecule type: DNA
A;Residues: 1-136 <MAR>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;1-30/Region: framework 1
F;15-98/Domain: immunoglobulin homology <IMM>
F;31-35/Region: complementarity-determining 1
F;36-50/Region: framework 2
F;51-67/Region: complementarity-determining 2
F;68-98/Region: framework 3
F;99-124/Region: complementarity-determining 3

Query Match 73.6%; Score 471.5; DB 2; Length 136;
Best Local Similarity 69.1%; Pred. No. 3e-36;
Matches 94; Conservative 12; Mismatches 17; Indels 13; Gaps 1;

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              |||| |||||||||||||:||||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLL------------LFPH 107
              :| ||||| ||||:|| || |||||||||||||||||| |  :           :
Db         61 AQKFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARGRTRVSVSTLYDSSGYYDFSGY 120

Qy        108 HALSPWGRGTMVTVSS 123
               : :  ||:|| |||||
Db        121 YGMDVWGQGTTVTVSS 136
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Job time : 29.0991 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 11, 2005, 06:56:35 ; Search time 99.1422 Seconds
(without alignments)
411.890 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	641	100.0	249	10	US-09-880-748-327	Sequence 327, App
2	641	100.0	249	15	US-10-293-418-327	Sequence 327, App
3	626	97.7	249	10	US-09-880-748-785	Sequence 785, App
4	626	97.7	249	15	US-10-293-418-785	Sequence 785, App
5	622	97.0	249	10	US-09-880-748-527	Sequence 527, App
6	622	97.0	249	10	US-09-880-748-684	Sequence 684, App
7	622	97.0	249	10	US-09-880-748-804	Sequence 804, App
8	622	97.0	249	15	US-10-293-418-527	Sequence 527, App
9	622	97.0	249	15	US-10-293-418-684	Sequence 684, App
10	622	97.0	249	15	US-10-293-418-804	Sequence 804, App
11	621	96.9	249	10	US-09-880-748-660	Sequence 660, App
12	621	96.9	249	15	US-10-293-418-660	Sequence 660, App
13	620	96.7	249	10	US-09-880-748-344	Sequence 344, App
14	620	96.7	249	10	US-09-880-748-363	Sequence 363, App
15	620	96.7	249	10	US-09-880-748-664	Sequence 664, App
16	620	96.7	249	15	US-10-293-418-344	Sequence 344, App
17	620	96.7	249	15	US-10-293-418-363	Sequence 363, App
18	620	96.7	249	15	US-10-293-418-664	Sequence 664, App
19	619	96.6	249	10	US-09-880-748-590	Sequence 590, App
20	619	96.6	249	10	US-09-880-748-821	Sequence 821, App
21	619	96.6	249	15	US-10-293-418-590	Sequence 590, App
22	619	96.6	249	15	US-10-293-418-821	Sequence 821, App
23	618	96.4	249	10	US-09-880-748-324	Sequence 324, App
24	618	96.4	249	10	US-09-880-748-325	Sequence 325, App
25	618	96.4	249	10	US-09-880-748-596	Sequence 596, App
26	618	96.4	249	10	US-09-880-748-701	Sequence 701, App
27	618	96.4	249	15	US-10-293-418-324	Sequence 324, App
28	618	96.4	249	15	US-10-293-418-325	Sequence 325, App
29	618	96.4	249	15	US-10-293-418-596	Sequence 596, App
30	618	96.4	249	15	US-10-293-418-701	Sequence 701, App
31	617	96.3	249	10	US-09-880-748-366	Sequence 366, App
32	617	96.3	249	10	US-09-880-748-404	Sequence 404, App
33	617	96.3	249	10	US-09-880-748-486	Sequence 486, App
34	617	96.3	249	10	US-09-880-748-723	Sequence 723, App
35	617	96.3	249	10	US-09-880-748-743	Sequence 743, App
36	617	96.3	249	15	US-10-293-418-366	Sequence 366, App
37	617	96.3	249	15	US-10-293-418-404	Sequence 404, App
38	617	96.3	249	15	US-10-293-418-486	Sequence 486, App
39	617	96.3	249	15	US-10-293-418-723	Sequence 723, App
40	617	96.3	249	15	US-10-293-418-743	Sequence 743, App
41	616	96.1	249	10	US-09-880-748-375	Sequence 375, App
42	616	96.1	249	10	US-09-880-748-399	Sequence 399, App
43	616	96.1	249	10	US-09-880-748-696	Sequence 696, App
44	616	96.1	249	10	US-09-880-748-698	Sequence 698, App
45	616	96.1	249	10	US-09-880-748-709	Sequence 709, App

ALIGNMENTS

RESULT 1
US-09-880-748-327
; Sequence 327, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 327
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-327

Query Match 100.0%; Score 641; DB 10; Length 249;
Best Local Similarity 100.0%; Pred. No. 2.2e-53;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
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Db 1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

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Db          61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy         121 VSS 123
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Db         121 VSS 123


RESULT 2
US-10-293-418-327
; Sequence 327, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 327
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-327

  Query Match           100.0%;  Score 641;  DB 15;  Length 249;
  Best Local Similarity  100.0%;  Pred. No. 2.2e-53;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy           1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
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Qy         121 VSS 123
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Db         121 VSS 123


RESULT 3
US-09-880-748-785
; Sequence 785, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 785
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-785

  Query Match           97.7%;  Score 626;  DB 10;  Length 249;
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  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

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Db           1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy          61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLEPWGRGTMVT 120
               |||||||||||||||| |||||||||||||||||||||||||||||| | |||||||||
Db          61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLEPWGRGTMVT 120

Qy         121 VSS 123
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Db         121 VSS 123


RESULT 4
US-10-293-418-785
; Sequence 785, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 785
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-785

  Query Match           97.7%;  Score 626;  DB 15;  Length 249;
  Best Local Similarity  97.6%;  Pred. No. 6e-52;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

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Qy         121 VSS 123
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RESULT 5
US-09-880-748-527
; Sequence 527, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 527
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-527

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  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||| | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPQHPLSPWGRGTMVT 120

Qy        121 VSS 123
               |||
Db        121 VSS 123


RESULT 6
US-09-880-748-684
; Sequence 684, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 684
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-684

  Query Match             97.0%;  Score 622;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||| |||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPEPLSPWGRGTMVT 120

Qy        121 VSS 123
               |||
Db        121 VSS 123


RESULT 7
US-09-880-748-804
; Sequence 804, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 804
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-804

  Query Match             97.0%;  Score 622;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||| ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHALDVWGRGTMVT 120

Qy        121 VSS 123
               |||
Db        121 VSS 123


RESULT 8
US-10-293-418-527
; Sequence 527, Application US/10293418
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; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 527
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-527

  Query Match           97.0%;  Score 622;  DB 15;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||| | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPQHPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 9
US-10-293-418-684
; Sequence 684, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 684
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-684

  Query Match           97.0%;  Score 622;  DB 15;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHEPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 10
US-10-293-418-804
; Sequence 804, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 804
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-804

  Query Match           97.0%;  Score 622;  DB 15;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.5e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHALDVWGRGTMVT 120

Qy        121 VSS 123
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Db        121 VSS 123
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RESULT 11
US-09-880-748-660
; Sequence 660, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 660
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-660

  Query Match             96.9%;  Score 621;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.8e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHDPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 12
US-10-293-418-660
; Sequence 660, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523P2
;  CURRENT APPLICATION NUMBER: US/10/293,418
;  CURRENT FILING DATE:  2002-11-27
;  PRIOR APPLICATION NUMBER: 60/331,469
;  PRIOR FILING DATE: 2001-11-16
;  PRIOR APPLICATION NUMBER: 60/340,817
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 09/880,748
;  PRIOR FILING DATE: 2001-06-15
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-16
;  NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 660
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-293-418-660

  Query Match             96.9%;  Score 621;  DB 15;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.8e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
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Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHDPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 13
US-09-880-748-344
; Sequence 344, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 344
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-344

  Query Match             96.7%;  Score 620;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.3e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHAPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 14
US-09-880-748-363
; Sequence 363, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
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;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 363
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-363

  Query Match             96.7%;  Score 620;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.3e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||||   ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHSYLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 15
US-09-880-748-664
; Sequence 664, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
;  FILE REFERENCE: PF523
;  CURRENT APPLICATION NUMBER: US/09/880,748
;  CURRENT FILING DATE:  2001-06-15
;  PRIOR APPLICATION NUMBER: 60/212,210
;  PRIOR FILING DATE: 2000-06-15
;  PRIOR APPLICATION NUMBER: 60/240,816
;  PRIOR FILING DATE: 2000-10-17
;  PRIOR APPLICATION NUMBER: 60/276,248
;  PRIOR FILING DATE: 2001-03-16
;  PRIOR APPLICATION NUMBER: 60/277,379
;  PRIOR FILING DATE: 2001-03-21
;  PRIOR APPLICATION NUMBER: 60/293,499
;  PRIOR FILING DATE: 2001-05-25
;  NUMBER OF SEQ ID NOS: 3239
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 664
;   LENGTH: 249
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-880-748-664

  Query Match             96.7%;  Score 620;  DB 10;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.3e-51;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||||   ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHAPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


Search completed: April 11, 2005, 07:17:32
Job time : 99.1422 secs
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OM protein - protein search, using sw model

Run on: April 11, 2005, 06:51:29 ; Search time 31.8103 Seconds
(without alignments)
288.643 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	486.5	75.9	270	4	US-09-976-118-2	Sequence 2, Appli
2	479	74.7	123	2	US-08-652-816A-8	Sequence 8, Appli
3	478	74.6	123	2	US-08-652-816A-1	Sequence 1, Appli
4	476	74.3	123	2	US-08-652-816A-9	Sequence 9, Appli
5	475.5	74.2	118	4	US-09-203-768A-6	Sequence 6, Appli
6	475.5	74.2	120	3	US-09-025-769B-35	Sequence 35, Appl
7	475.5	74.2	120	3	US-09-025-769B-57	Sequence 57, Appl
8	475.5	74.2	120	4	US-09-490-070A-35	Sequence 35, Appl
9	475.5	74.2	120	4	US-09-490-070A-57	Sequence 57, Appl
10	475.5	74.2	120	4	US-09-490-153-35	Sequence 35, Appl
11	475.5	74.2	120	4	US-09-490-153-57	Sequence 57, Appl
12	475.5	74.2	120	4	US-09-490-324-35	Sequence 35, Appl
13	475.5	74.2	120	4	US-09-490-324-57	Sequence 57, Appl
14	473	73.8	119	3	US-09-025-769B-21	Sequence 21, Appl
15	473	73.8	119	4	US-09-490-070A-21	Sequence 21, Appl
16	473	73.8	119	4	US-09-490-153-21	Sequence 21, Appl
17	473	73.8	119	4	US-09-490-324-21	Sequence 21, Appl
18	471	73.5	123	2	US-08-652-816A-6	Sequence 6, Appli
19	468	73.0	476	2	US-08-378-939-10	Sequence 10, Appl
20	461.5	72.0	126	4	US-08-844-215-7	Sequence 7, Appli
21	460	71.8	123	2	US-08-652-816A-7	Sequence 7, Appli
22	451	70.4	120	2	US-08-428-197-12	Sequence 12, Appl
23	451	70.4	120	5	PCT-US93-10555-12	Sequence 12, Appl
24	443	69.1	119	3	US-08-983-607-50	Sequence 50, Appl
25	440	68.6	121	2	US-08-232-081B-41	Sequence 41, Appl
26	439.5	68.6	147	1	US-08-217-918-4	Sequence 4, Appli
27	438	68.3	120	2	US-08-428-197-13	Sequence 13, Appl
28	438	68.3	120	5	PCT-US93-10555-13	Sequence 13, Appl
29	436.5	68.1	142	4	US-09-471-276-872	Sequence 872, App
30	434.5	67.8	122	4	US-09-424-840B-24	Sequence 24, Appl
31	422.5	65.9	128	4	US-08-635-109-3	Sequence 3, Appli
32	422.5	65.9	128	4	US-08-844-215-3	Sequence 3, Appli
33	421	65.7	117	1	US-07-634-278-4	Sequence 4, Appli
34	421	65.7	117	1	US-07-634-278-15	Sequence 15, Appl
35	421	65.7	117	1	US-07-634-278-72	Sequence 72, Appl
36	421	65.7	117	1	US-07-634-278-104	Sequence 104, App
37	421	65.7	117	1	US-08-477-728-4	Sequence 4, Appli
38	421	65.7	117	1	US-08-477-728-15	Sequence 15, Appl
39	421	65.7	117	1	US-08-477-728-72	Sequence 72, Appl
40	421	65.7	117	1	US-08-477-728-104	Sequence 104, App
41	421	65.7	117	1	US-08-474-040-4	Sequence 4, Appli
42	421	65.7	117	1	US-08-474-040-15	Sequence 15, Appl
43	421	65.7	117	1	US-08-474-040-72	Sequence 72, Appl
44	421	65.7	117	1	US-08-474-040-104	Sequence 104, App
45	421	65.7	117	1	US-08-487-200-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-09-976-118-2
; Sequence 2, Application US/09976118
; Patent No. 6699473
; GENERAL INFORMATION:
; APPLICANT: Raisch, Kevin Paul
; APPLICANT: Curiel, David T.
; APPLICANT: Bonner, James Allen
; TITLE OF INVENTION: Human Anti-Epidermal Growth Factor Receptor
; TITLE OF INVENTION: Single-Chain Antibodies
; FILE REFERENCE: D6355
; CURRENT APPLICATION NUMBER: US/09/976,118
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: US 60/240,353
; PRIOR FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 270
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: amino acid sequence of anti-EGFR scFV
; OTHER INFORMATION: clone pSEX81-63
US-09-976-118-2

Query Match 75.9%; Score 486.5; DB 4; Length 270;
Best Local Similarity 76.4%; Pred. No. 2.8e-43;
Matches 97; Conservative 10; Mismatches 15; Indels 5; Gaps 2;

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Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLL----LFPHHALSPWGRG 116
                :| ||||| ||||||| || |||||||||||||||||  |       :|:    |||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARDPDYYGSGSYYPNW-FDPWGQG 119

Qy        117 TMVTVSS 123
                |:|||||
Db        120 TLVTVSS 126
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RESULT 2
US-08-652-816A-8
; Sequence 8, Application US/08652816A
; Patent No. 5872215
; GENERAL INFORMATION:
; APPLICANT: Osbourn, JK
; APPLICANT: Allen, DJ
; APPLICANT: McCafferty, JG

```
;    TITLE OF INVENTION:  Specific binding members, materials and
;    TITLE OF INVENTION:  methods.
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/652,816A
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.4
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.8
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206318.9
;      FILING DATE:  24-MAR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206372.6
;      FILING DATE:  23-SEP-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9525004.9
;      FILING DATE:  07-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9610824.6
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB92/02240
;      FILING DATE:  02-DEC-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/244,597
;      FILING DATE:  01-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  David W. Clough
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  28111/33308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  123 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-652-816A-8

  Query Match             74.7%;  Score 479;  DB 2;  Length 123;
  Best Local Similarity   75.6%;  Pred. No. 6.7e-43;
  Matches   93;  Conservative   10;  Mismatches   20;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||||:|: |||:|||||||||||| ||| |||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSNSPINWLRQAPGQGLEWMGSIIPSFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||: ||||||| || ||||||||||||||||        :: :  ||:|||||
Db         61 AQKFQGRLTITADESTSTAYMELSSLRSEDTAVYYCARHNHNYELYYYYMDVWGQGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 3
US-08-652-816A-1
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; Sequence 1, Application US/08652816A
; Patent No. 5872215
; GENERAL INFORMATION:
;    APPLICANT:  Osbourn, JK
;    APPLICANT:  Allen, DJ
;    APPLICANT:  McCafferty, JG
;    TITLE OF INVENTION:  Specific binding members, materials and
;    TITLE OF INVENTION:  methods.
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/652,816A
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.4
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.8
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206318.9
;      FILING DATE:  24-MAR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206372.6
;      FILING DATE:  23-SEP-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9525004.9
;      FILING DATE:  07-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9610824.6
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB92/02240
;      FILING DATE:  02-DEC-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/244,597
;      FILING DATE:  01-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  David W. Clough
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  28111/33308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  123 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-652-816A-1

  Query Match             74.6%;  Score 478;  DB 2;  Length 123;
  Best Local Similarity   76.6%;  Pred. No. 8.5e-43;
  Matches   95;  Conservative   12;  Mismatches   15;  Indels    2;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:|: |||:|||||||||||| ||| |||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSNSPINWLRQAPGQGLEWMGSIIPSFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCA-RSRDLLLFPHHALSPWGRGTMV 119
              :| ||||: ||||||| || |||||||||||||||| || :  |: :: :  ||:||||
Db         61 AQKFQGRLTITADESTSTAYMELSSLRSEDTAVYYCAGRSHNYELY-YYYMDVWGQGTMV 119

Qy        120 TVSS 123
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              ||||
Db        120 TVSS 123


RESULT 4
US-08-652-816A-9
; Sequence 9, Application US/08652816A
; Patent No. 5872215
;  GENERAL INFORMATION:
;    APPLICANT:  Osbourn, JK
;    APPLICANT:  Allen, DJ
;    APPLICANT:  McCafferty, JG
;    TITLE OF INVENTION:  Specific binding members, materials and
;    TITLE OF INVENTION:  methods.
;    NUMBER OF SEQUENCES:  53
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  6300 Sears Tower, 233 South Wacker Drive
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/652,816A
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.4
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9125579.8
;      FILING DATE:  02-DEC-1991
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206318.9
;      FILING DATE:  24-MAR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9206372.6
;      FILING DATE:  23-SEP-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9525004.9
;      FILING DATE:  07-DEC-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9610824.6
;      FILING DATE:  23-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB92/02240
;      FILING DATE:  02-DEC-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/244,597
;      FILING DATE:  01-JUN-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  David W. Clough
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  28111/33308
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  312-474-6300
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  123 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-652-816A-9

  Query Match             74.3%;  Score 476;  DB 2;  Length 123;
  Best Local Similarity   76.6%;  Pred. No. 1.4e-42;
  Matches   95;  Conservative   11;  Mismatches   16;  Indels    2;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:|: |||:||||||||||| ||| |||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSNSPINWLRQAPGQGLEWMGSIIPSFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCA-RSRDLLLFPHHALSPWGRGTMV 119
              :| |||||: ||||||| || |||||||||||||||| ||    |: :: :  ||:||||
Db         61 AQKFQGRLTITADESTSTAYMELSSLRSEDTAVYYCAGRSHTYELY-YYYMDVWGQGTMV 119

Qy        120 TVSS 123
              ||||
Db        120 TVSS 123


RESULT 5
US-09-203-768A-6
; Sequence 6, Application US/09203768A
; Patent No. 6787638
; GENERAL INFORMATION:
;  APPLICANT:  Huse, William D.
;  APPLICANT:  Watkins, Jeffry D.
;  TITLE OF INVENTION:  Tumor Specific Human Monoclonal Antibodies and Methods
;  TITLE OF INVENTION:  of Use
;  FILE REFERENCE:  P-IX 2947
;  CURRENT APPLICATION NUMBER: US/09/203,768A
;  CURRENT FILING DATE:  1998-12-02
;  NUMBER OF SEQ ID NOS:  8
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 6
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-203-768A-6

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 118;
  Best Local Similarity   78.0%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   12;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:|||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              :| ||||| ||||||| || |||||||||||||||||  |   : |:    ||:||:||
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCAR-EDSSGWYHY----WGQGTLVT 115

Qy        121 VSS 123
              |||
Db        116 VSS 118


RESULT 6
US-09-025-769B-35
; Sequence 35, Application US/09025769B
; Patent No. 6300064
;  GENERAL INFORMATION:
;    APPLICANT:  Knappik, Achim
;    APPLICANT:  Pack, Peter
;    APPLICANT:  Ilag, Vic
;    APPLICANT:  Ge, Liming
;    APPLICANT:  Moroney, Simon
;    APPLICANT:  Plueckthun, Andreas
;    TITLE OF INVENTION:  Protein/(Poly)peptide libraries
;    NUMBER OF SEQUENCES:  373
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  James F. Haley, Jr., Esq. c/o Fish & Neave
;      STREET:  1251 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10021
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/09/025,769B
;      FILING DATE:  18-FEB-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  EP 95 11 3021.0
;      FILING DATE:  18-AUG-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  James F. Haley, Jr., Esq.
;      REGISTRATION NUMBER:  27,794
;      REFERENCE/DOCKET NUMBER:  MORPHO/5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)596-9000
;      TELEFAX:  (212)596-9090
;  INFORMATION FOR SEQ ID NO:  35:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  120 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-025-769B-35

  Query Match             74.2%;  Score 475.5;  DB 3;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || |||||||||||||||||    |      :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 7
US-09-025-769B-57
; Sequence 57, Application US/09025769B
; Patent No. 6300064
;  GENERAL INFORMATION:
;    APPLICANT:  Knappik, Achim
;    APPLICANT:  Pack, Peter
;    APPLICANT:  Ilag, Vic
;    APPLICANT:  Ge, Liming
;    APPLICANT:  Moroney, Simon
;    APPLICANT:  Plueckthun, Andreas
;    TITLE OF INVENTION:  Protein/(Poly)peptide libraries
;    NUMBER OF SEQUENCES:  373
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  James F. Haley, Jr., Esq. c/o Fish & Neave
;      STREET:  1251 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10021
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/025,769B
;      FILING DATE:  18-FEB-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  EP 95 11 3021.0
;      FILING DATE:  18-AUG-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  James F. Haley, Jr., Esq.
;      REGISTRATION NUMBER:  27,794
;      REFERENCE/DOCKET NUMBER:  MORPHO/5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)596-9000
;      TELEFAX:  (212)596-9090
;  INFORMATION FOR SEQ ID NO:  57:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  120 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-025-769B-57

  Query Match             74.2%;  Score 475.5;  DB 3;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || |||||||||||||||||    |      :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 8
US-09-490-070A-35
; Sequence 35, Application US/09490070A
; Patent No. 6696248
;  GENERAL INFORMATION:
;       APPLICANT: Knappik, Achim
;                  Pack, Peter
;                  Ilag, Vic
;                  Ge, Liming
;                  Moroney, Simon
;                  Plueckthun, Andreas
;       TITLE OF INVENTION: Protein/(Poly)peptide libraries
;       NUMBER OF SEQUENCES: 373
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller Ehrman
;                       White & McAuliffe
;            STREET: 1666 K Street, N.W., Suite 300
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: USA
;            ZIP: 20006
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/490,070A
;            FILING DATE: 24-Jan-2000
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: EP 95 11 3021.0
;            FILING DATE: 18-AUG-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Colin G. Sandercock, Esq.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37629-0005
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 912-2000
;            TELEFAX: (202) 912-2020
;  INFORMATION FOR SEQ ID NO: 35:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 120 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: <Unknown>
;            TOPOLOGY: linear
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;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 35:
US-09-490-070A-35

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||    |      :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 9
US-09-490-070A-57
; Sequence 57, Application US/09490070A
; Patent No. 6696248
;  GENERAL INFORMATION:
;       APPLICANT: Knappik, Achim
;                  Pack, Peter
;                  Ilag, Vic
;                  Ge, Liming
;                  Moroney, Simon
;                  Plueckthun, Andreas
;       TITLE OF INVENTION: Protein/(Poly)peptide libraries
;       NUMBER OF SEQUENCES: 373
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller Ehrman
;                       White & McAuliffe
;            STREET: 1666 K Street, N.W., Suite 300
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: USA
;            ZIP: 20006
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/490,070A
;            FILING DATE: 24-Jan-2000
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: EP 95 11 3021.0
;            FILING DATE: 18-AUG-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Colin G. Sandercock, Esq.
;            REGISTRATION NUMBER: 31,298
;            REFERENCE/DOCKET NUMBER: 37629-0005
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (202) 912-2000
;            TELEFAX: (202) 912-2020
;  INFORMATION FOR SEQ ID NO: 57:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 120 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 57:
US-09-490-070A-57

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||    |      :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 10
US-09-490-153-35
; Sequence 35, Application US/09490153
; Patent No. 6706484
;  GENERAL INFORMATION:
;       APPLICANT: Knappik, Achim
;                  Pack, Peter
;                  Ilag, Vic
;                  Ge, Liming
;                  Moroney, Simon
;                  Plueckthun, Andreas
;       TITLE OF INVENTION: Protein/(Poly)peptide libraries
;       NUMBER OF SEQUENCES: 373
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
;            STREET: 1251 Avenue of the Americas
;            CITY: New York
;            STATE: New York
;            COUNTRY: USA
;            ZIP: 10021
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/490,153
;            FILING DATE: 24-Jan-2000
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/09/025,769B
;            FILING DATE: 18-FEB-1998
;            APPLICATION NUMBER: EP 95 11 3021.0
;            FILING DATE: 18-AUG-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: James F. Haley, Jr., Esq.
;            REGISTRATION NUMBER: 27,794
;            REFERENCE/DOCKET NUMBER: MORPHO/5
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (212)596-9000
;            TELEFAX: (212)596-9090
;  INFORMATION FOR SEQ ID NO: 35:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 120 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: <Unknown>
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 35:
US-09-490-153-35

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||    |      :|:  ||:||:|
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Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 11
US-09-490-153-57
; Sequence 57, Application US/09490153
; Patent No. 6706484
;   GENERAL INFORMATION:
;        APPLICANT: Knappik, Achim
;                   Pack, Peter
;                   Ilag, Vic
;                   Ge, Liming
;                   Moroney, Simon
;                   Plueckthun, Andreas
;        TITLE OF INVENTION: Protein/(Poly)peptide libraries
;        NUMBER OF SEQUENCES: 373
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
;             STREET: 1251 Avenue of the Americas
;             CITY: New York
;             STATE: New York
;             COUNTRY: USA
;             ZIP: 10021
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/490,153
;             FILING DATE: 24-Jan-2000
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/025,769B
;             FILING DATE: 18-FEB-1998
;             APPLICATION NUMBER: EP 95 11 3021.0
;             FILING DATE: 18-AUG-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: James F. Haley, Jr., Esq.
;             REGISTRATION NUMBER: 27,794
;             REFERENCE/DOCKET NUMBER: MORPHO/5
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (212)596-9000
;             TELEFAX: (212)596-9090
;   INFORMATION FOR SEQ ID NO: 57:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 120 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 57:
US-09-490-153-57

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||||    |       :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 12
US-09-490-324-35
; Sequence 35, Application US/09490324
; Patent No. 6828422
;   GENERAL INFORMATION:
;        APPLICANT: Knappik, Achim
;                   Pack, Peter
;                   Ilag, Vic
;                   Ge, Liming
;                   Moroney, Simon
;                   Plueckthun, Andreas
;        TITLE OF INVENTION: Protein/(Poly)peptide libraries
;        NUMBER OF SEQUENCES: 373
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
;             STREET: 1251 Avenue of the Americas
;             CITY: New York
;             STATE: New York
;             COUNTRY: USA
;             ZIP: 10021
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/490,324
;             FILING DATE: 24-Jan-2000
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/025,769
;             FILING DATE: 18-FEB-1998
;             APPLICATION NUMBER: EP 95 11 3021.0
;             FILING DATE: 18-AUG-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: James F. Haley, Jr., Esq.
;             REGISTRATION NUMBER: 27,794
;             REFERENCE/DOCKET NUMBER: MORPHO/5
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (212)596-9000
;             TELEFAX: (212)596-9090
;   INFORMATION FOR SEQ ID NO: 35:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 120 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: <Unknown>
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 35:
US-09-490-324-35

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:||||||||:: ||:||||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||||    |       :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 13
US-09-490-324-57
; Sequence 57, Application US/09490324
; Patent No. 6828422
;   GENERAL INFORMATION:
;        APPLICANT: Knappik, Achim
```

```
;                  Pack, Peter
;                  Ilag, Vic
;                  Ge, Liming
;                  Moroney, Simon
;                  Plueckthun, Andreas
;       TITLE OF INVENTION: Protein/(Poly)peptide libraries
;       NUMBER OF SEQUENCES: 373
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
;            STREET: 1251 Avenue of the Americas
;            CITY: New York
;            STATE: New York
;            COUNTRY: USA
;            ZIP: 10021
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/490,324
;            FILING DATE: 24-Jan-2000
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/09/025,769
;            FILING DATE: 18-FEB-1998
;            APPLICATION NUMBER: EP 95 11 3021.0
;            FILING DATE: 18-AUG-1995
;       ATTORNEY/AGENT INFORMATION:
;            NAME: James F. Haley, Jr., Esq.
;            REGISTRATION NUMBER: 27,794
;            REFERENCE/DOCKET NUMBER: MORPHO/5
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (212)596-9000
;            TELEFAX: (212)596-9090
;   INFORMATION FOR SEQ ID NO: 57:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 120 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       SEQUENCE DESCRIPTION: SEQ ID NO: 57:
US-09-490-324-57

  Query Match             74.2%;  Score 475.5;  DB 4;  Length 120;
  Best Local Similarity   77.4%;  Pred. No. 1.5e-42;
  Matches   96;  Conservative   10;  Mismatches   13;  Indels    5;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCAR-SRDLLLFPHHALSPWGRGTMV 119
              :| ||||| ||||||| || ||||||||||||||||||    |      :|:  ||:||:|
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARWGGD----GFYAMDYWGQGTLV 116

Qy        120 TVSS 123
              ||||
Db        117 TVSS 120


RESULT 14
US-09-025-769B-21
; Sequence 21, Application US/09025769B
; Patent No. 6300064
;  GENERAL INFORMATION:
;    APPLICANT:  Knappik, Achim
;    APPLICANT:  Pack, Peter
;    APPLICANT:  Ilag, Vic
;    APPLICANT:  Ge, Liming
;    APPLICANT:  Moroney, Simon
;    APPLICANT:  Plueckthun, Andreas
;    TITLE OF INVENTION:  Protein/(Poly)peptide libraries
;    NUMBER OF SEQUENCES:  373
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  James F. Haley, Jr., Esq. c/o Fish & Neave
;      STREET:  1251 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10021
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/025,769B
;      FILING DATE:  18-FEB-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  EP 95 11 3021.0
;      FILING DATE:  18-AUG-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  James F. Haley, Jr., Esq.
;      REGISTRATION NUMBER:  27,794
;      REFERENCE/DOCKET NUMBER:  MORPHO/5
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212)596-9000
;      TELEFAX:  (212)596-9090
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  119 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-025-769B-21

  Query Match             73.8%;  Score 473;  DB 3;  Length 119;
  Best Local Similarity   76.0%;  Pred. No. 2.7e-42;
  Matches   95;  Conservative   10;  Mismatches   12;  Indels    8;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHH--ALSPWGRGTM 118
              :| ||||| ||||||| || ||||||||||||||||:      | :      ||:||:
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARA------PGYCSGFDYWGQGTL 114

Qy        119 VTVSS 123
              |||||
Db        115 VTVSS 119


RESULT 15
US-09-490-070A-21
; Sequence 21, Application US/09490070A
; Patent No. 6696248
;  GENERAL INFORMATION:
;       APPLICANT: Knappik, Achim
;                  Pack, Peter
;                  Ilag, Vic
;                  Ge, Liming
;                  Moroney, Simon
;                  Plueckthun, Andreas
;       TITLE OF INVENTION: Protein/(Poly)peptide libraries
;       NUMBER OF SEQUENCES: 373
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller Ehrman
;                       White & McAuliffe
;            STREET: 1666 K Street, N.W., Suite 300
;            CITY: Washington
;            STATE: D.C.
;            COUNTRY: USA
;            ZIP: 20006
;       COMPUTER READABLE FORM:
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```
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/490,070A
;             FILING DATE: 24-Jan-2000
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: EP 95 11 3021.0
;             FILING DATE: 18-AUG-1995
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Colin G. Sandercock, Esq.
;             REGISTRATION NUMBER: 31,298
;             REFERENCE/DOCKET NUMBER: 37629-0005
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (202) 912-2000
;             TELEFAX: (202) 912-2020
;   INFORMATION FOR SEQ ID NO: 21:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 119 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: <Unknown>
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-09-490-070A-21

  Query Match             73.8%;  Score 473;  DB 4;  Length 119;
  Best Local Similarity   76.0%;  Pred. No. 2.7e-42;
  Matches   95;  Conservative   10;  Mismatches   12;  Indels    8;  Gaps    2;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              |||| |||||||||||||:|||||||||:: ||:|||||||||||||||||:|||| |
Db          1 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGGIIPIFGTANY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHH--ALSPWGRGTM 118
              :| ||||| ||||||| || |||||||||||||||||:      | :      ||:||:
Db         61 AQKFQGRVTITADESTSTAYMELSSLRSEDTAVYYCARA------PGYCSGFDYWGQGTL 114

Qy        119 VTVSS 123
              |||||
Db        115 VTVSS 119


Search completed: April 11, 2005, 07:02:44
Job time : 32.8103 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 11, 2005, 06:35:43 ; Search time 130.953 Seconds
(without alignments)
363.273 Million cell updates/sec

Title: US-09-880-748-327_COPY_1_123
Perfect score: 641
Sequence: 1 QVQLQQSGAEVKKPGSSVRV.....LFPHHALSPWGRGTMVTVSS 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	641	100.0	249	5	ABP44316	Abp44316 Human BLy
2	641	100.0	249	7	ADF16601	Adf16601 Human alb
3	641	100.0	249	7	ADF15178	Adf15178 Human alb
4	641	100.0	249	7	ADF15214	Adf15214 Human alb
5	641	100.0	249	7	ADG95143	Adg95143 Single ch
6	641	100.0	848	7	ADF14964	Adf14964 Human alb
7	641	100.0	850	7	ADF16438	Adf16438 Human alb
8	641	100.0	864	7	ADF15000	Adf15000 Human alb
9	626	97.7	249	5	ABP44774	Abp44774 Human BLy
10	626	97.7	249	7	ADG95601	Adg95601 Single ch
11	622	97.0	249	5	ABP44793	Abp44793 Human BLy
12	622	97.0	249	5	ABP44516	Abp44516 Human BLy
13	622	97.0	249	5	ABP44673	Abp44673 Human BLy
14	622	97.0	249	7	ADG95343	Adg95343 Single ch
15	622	97.0	249	7	ADG95500	Adg95500 Single ch
16	622	97.0	249	7	ADG95620	Adg95620 Single ch
17	621	96.9	249	5	ABP44649	Abp44649 Human BLy
18	621	96.9	249	7	ADG95476	Adg95476 Single ch
19	620	96.7	249	5	ABP44333	Abp44333 Human BLy
20	620	96.7	249	5	ABP44653	Abp44653 Human BLy
21	620	96.7	249	5	ABP44352	Abp44352 Human BLy
22	620	96.7	249	7	ADG95160	Adg95160 Single ch
23	620	96.7	249	7	ADG95480	Adg95480 Single ch
24	620	96.7	249	7	ADG95179	Adg95179 Single ch
25	619	96.6	249	5	ABP44810	Abp44810 Human BLy
26	619	96.6	249	5	ABP44579	Abp44579 Human BLy
27	619	96.6	249	7	ADG95406	Adg95406 Single ch
28	619	96.6	249	7	ADG95637	Adg95637 Single ch
29	618	96.4	249	5	ABP44314	Abp44314 Human BLy
30	618	96.4	249	5	ABP44585	Abp44585 Human BLy
31	618	96.4	249	5	ABP44313	Abp44313 Human BLy
32	618	96.4	249	5	ABP44690	Abp44690 Human BLy
33	618	96.4	249	7	ADG95412	Adg95412 Single ch
34	618	96.4	249	7	ADG95517	Adg95517 Single ch
35	618	96.4	249	7	ADG95141	Adg95141 Single ch
36	618	96.4	249	7	ADG95140	Adg95140 Single ch
37	617	96.3	249	5	ABP44732	Abp44732 Human BLy
38	617	96.3	249	5	ABP44355	Abp44355 Human BLy
39	617	96.3	249	5	ABP44393	Abp44393 Human BLy
40	617	96.3	249	5	ABP44475	Abp44475 Human BLy
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42	617	96.3	249	7	ADG95302	Adg95302 Single ch
43	617	96.3	249	7	ADG95182	Adg95182 Single ch
44	617	96.3	249	7	ADG95559	Adg95559 Single ch
45	617	96.3	249	7	ADG95220	Adg95220 Single ch

ALIGNMENTS

RESULT 1
ABP44316
ID ABP44316 standard; protein; 249 AA.
XX
AC ABP44316;
XX
DT 19-AUG-2002 (first entry)
XX
DE Human BLyS binding scFv SEQ ID 327.
XX
KW BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KW tumour necrosis factor; B cell proliferation; B cell differentiation;
KW immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
KW antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KW systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KW common variable immunodeficiency; acquired immunodeficiency syndrome.
XX
OS Homo sapiens.
XX
PN WO200202641-A1.
XX
PD 10-JAN-2002.
XX
PF 15-JUN-2001; 2001WO-US019110.
XX
PR 16-JUN-2000; 2000US-0212210P.
PR 17-OCT-2000; 2000US-0240816P.
PR 16-MAR-2001; 2001US-0276248P.
PR 21-MAR-2001; 2001US-0277379P.
PR 25-MAY-2001; 2001US-0293499P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
XX
DR WPI; 2002-114799/15.
XX
PT Antibodies against B Lymphocyte Stimulating polypeptides, useful for the
PT diagnosis and treatment of cancers and immune disorders.
XX
PS Claim 1; Page 794-795; 3148pp; English.
XX
CC This invention describes novel antibodies that immunospecifically bind to
CC B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,

```
CC   antirheumatic and antiAIDS activity and can be used in vaccines to
CC   inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC   and so may be used to detect and quantitate the presence of BLyS in
CC   biological samples and may be used in this way to diagnose disease
CC   associated with aberrant expression of BLyS. They may also be
CC   administered to treat diseases associated with aberrant BLyS expression
CC   and activity such as cancer, immune, and autoimmune disorders and
CC   diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC   immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC   acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC   the antibodies and fragments of the antibodies described in the method of
CC   the invention
XX
SQ   Sequence 249 AA;

  Query Match            100.0%;  Score 641;  DB 5;  Length 249;
  Best Local Similarity  100.0%;  Pred. No. 4.7e-52;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 2
ADF16601
ID   ADF16601 standard; protein; 249 AA.
XX
AC   ADF16601;
XX
DT   12-FEB-2004  (first entry)
XX
DE   Human albumin fusion protein-related protein SeqID1703.
XX
KW   albumin fusion protein; albumin activity; human serum albumin;
KW   serum osmotic pressure; shelf-life; stability; antidiabetic;
KW   gene therapy; diabetes mellitus; human; gene; ds.
XX
OS   Homo sapiens.
XX
PN   WO2003060071-A2.
XX
PD   24-JUL-2003.
XX
PF   23-DEC-2002; 2002WO-US040891.
XX
PR   21-DEC-2001; 2001US-0341811P.
PR   24-JAN-2002; 2002US-0350358P.
PR   28-JAN-2002; 2002US-0351360P.
PR   26-FEB-2002; 2002US-0359370P.
PR   28-FEB-2002; 2002US-0360000P.
PR   27-MAR-2002; 2002US-0367500P.
PR   08-APR-2002; 2002US-0370227P.
PR   10-MAY-2002; 2002US-0378950P.
PR   24-MAY-2002; 2002US-0382617P.
PR   28-MAY-2002; 2002US-0383123P.
PR   05-JUN-2002; 2002US-0385708P.
PR   10-JUL-2002; 2002US-0394625P.
PR   24-JUL-2002; 2002US-0398008P.
PR   09-AUG-2002; 2002US-0402131P.
PR   13-AUG-2002; 2002US-0402708P.
PR   18-SEP-2002; 2002US-0411355P.
PR   18-SEP-2002; 2002US-0411426P.
PR   02-OCT-2002; 2002US-0414984P.
PR   11-OCT-2002; 2002US-0417611P.
PR   23-OCT-2002; 2002US-0420246P.
PR   05-NOV-2002; 2002US-0423623P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (DELZ ) DELTA BIOTECHNOLOGY LTD.
PA   (PRIN-) PRINCIPIA PHARM CORP.
XX
PI   Ballance DJ,  Turner AJ,  Rosen CA,  Haseltine WA;
XX
DR   WPI; 2003-598517/56.
DR   N-PSDB; ADF16275.
XX
PT   New albumin fusion protein, useful for preparing a composition for
PT   treating diabetes mellitus.
XX
PS   Example 4; SEQ ID NO 1703; 24pp; English.
XX
CC   This invention relates to a novel albumin fusion protein having albumin
CC   or biological activity. Human serum albumin is responsible for a
CC   significant proportion of the osmotic pressure of serum and also
CC   functions as a carrier of endogenous and exogenous ligands. The fusion of
CC   albumin to a therapeutic protein may increase shelf-life and stability of
CC   the therapeutic protein. The albumin fusion protein of the invention may
CC   allow production of compositions with antidiabetic activity whilst the
CC   nucleotide sequence which encodes it may be useful for gene therapy. The
CC   albumin fusion protein is useful for preparing a composition for treating
CC   diabetes mellitus. The present sequence is that of a therapeutic protein
CC   which was fused with human albumin to create a novel albumin fusion
CC   protein of the invention. Note: The sequence data for this patent did not
CC   form part of the printed specification, but was obtained in electronic
CC   format directly from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ   Sequence 249 AA;

  Query Match            100.0%;  Score 641;  DB 7;  Length 249;
  Best Local Similarity  100.0%;  Pred. No. 4.7e-52;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 3
ADF15178
ID   ADF15178 standard; protein; 249 AA.
XX
AC   ADF15178;
XX
DT   12-FEB-2004  (first entry)
XX
DE   Human albumin fusion protein-related protein SeqID476.
XX
KW   albumin fusion protein; albumin activity; human serum albumin;
KW   serum osmotic pressure; shelf-life; stability; antidiabetic;
KW   gene therapy; diabetes mellitus; human; gene; ds.
XX
OS   Homo sapiens.
XX
PN   WO2003060071-A2.
XX
PD   24-JUL-2003.
XX
PF   23-DEC-2002; 2002WO-US040891.
XX
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PR   21-DEC-2001; 2001US-0341811P.
PR   24-JAN-2002; 2002US-0350358P.
PR   28-JAN-2002; 2002US-0351360P.
PR   26-FEB-2002; 2002US-0359370P.
PR   28-FEB-2002; 2002US-0360000P.
PR   27-MAR-2002; 2002US-0367500P.
PR   08-APR-2002; 2002US-0370227P.
PR   10-MAY-2002; 2002US-0378950P.
PR   24-MAY-2002; 2002US-0382617P.
PR   28-MAY-2002; 2002US-0383123P.
PR   05-JUN-2002; 2002US-0385708P.
PR   10-JUL-2002; 2002US-0394625P.
PR   24-JUL-2002; 2002US-0398008P.
PR   09-AUG-2002; 2002US-0402131P.
PR   13-AUG-2002; 2002US-0402708P.
PR   18-SEP-2002; 2002US-0411355P.
PR   18-SEP-2002; 2002US-0411426P.
PR   02-OCT-2002; 2002US-0414984P.
PR   11-OCT-2002; 2002US-0417611P.
PR   23-OCT-2002; 2002US-0420246P.
PR   05-NOV-2002; 2002US-0423623P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (DELZ ) DELTA BIOTECHNOLOGY LTD.
PA   (PRIN-) PRINCIPIA PHARM CORP.
XX
PI   Ballance DJ,  Turner AJ,  Rosen CA,  Haseltine WA;
XX
DR   WPI; 2003-598517/56.
DR   N-PSDB; ADF15743.
XX
PT   New albumin fusion protein, useful for preparing a composition for
PT   treating diabetes mellitus.
XX
PS   Example 4; SEQ ID NO 476; 24pp; English.
XX
CC   This invention relates to a novel albumin fusion protein having albumin
CC   or biological activity. Human serum albumin is responsible for a
CC   significant proportion of the osmotic pressure of serum and also
CC   functions as a carrier of endogenous and exogenous ligands. The fusion of
CC   albumin to a therapeutic protein may increase shelf-life and stability of
CC   the therapeutic protein. The albumin fusion protein of the invention may
CC   allow production of compositions with antidiabetic activity whilst the
CC   nucleotide sequence which encodes it may be useful for gene therapy. The
CC   albumin fusion protein is useful for preparing a composition for treating
CC   diabetes mellitus. The present sequence is that of a therapeutic protein
CC   which was fused with human albumin to create a novel albumin fusion
CC   protein of the invention. Note: The sequence data for this patent did not
CC   form part of the printed specification, but was obtained in electronic
CC   format directly from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ   Sequence 249 AA;

  Query Match             100.0%;  Score 641;  DB 7;  Length 249;
  Best Local Similarity   100.0%;  Pred. No. 4.7e-52;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 4
ADF15214
ID   ADF15214 standard; protein; 249 AA.
XX
AC   ADF15214;
XX
DT   12-FEB-2004  (first entry)
XX
DE   Human albumin fusion protein-related protein SeqID512.
XX
KW   albumin fusion protein; albumin activity; human serum albumin;
KW   serum osmotic pressure; shelf-life; stability; antidiabetic;
KW   gene therapy; diabetes mellitus; human; gene; ds.
XX
OS   Homo sapiens.
XX
PN   WO2003060071-A2.
XX
PD   24-JUL-2003.
XX
PF   23-DEC-2002; 2002WO-US040891.
XX
PR   21-DEC-2001; 2001US-0341811P.
PR   24-JAN-2002; 2002US-0350358P.
PR   28-JAN-2002; 2002US-0351360P.
PR   26-FEB-2002; 2002US-0359370P.
PR   28-FEB-2002; 2002US-0360000P.
PR   27-MAR-2002; 2002US-0367500P.
PR   08-APR-2002; 2002US-0370227P.
PR   10-MAY-2002; 2002US-0378950P.
PR   24-MAY-2002; 2002US-0382617P.
PR   28-MAY-2002; 2002US-0383123P.
PR   05-JUN-2002; 2002US-0385708P.
PR   10-JUL-2002; 2002US-0394625P.
PR   24-JUL-2002; 2002US-0398008P.
PR   09-AUG-2002; 2002US-0402131P.
PR   13-AUG-2002; 2002US-0402708P.
PR   18-SEP-2002; 2002US-0411355P.
PR   18-SEP-2002; 2002US-0411426P.
PR   02-OCT-2002; 2002US-0414984P.
PR   11-OCT-2002; 2002US-0417611P.
PR   23-OCT-2002; 2002US-0420246P.
PR   05-NOV-2002; 2002US-0423623P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (DELZ ) DELTA BIOTECHNOLOGY LTD.
PA   (PRIN-) PRINCIPIA PHARM CORP.
XX
PI   Ballance DJ,  Turner AJ,  Rosen CA,  Haseltine WA;
XX
DR   WPI; 2003-598517/56.
DR   N-PSDB; ADF15779.
XX
PT   New albumin fusion protein, useful for preparing a composition for
PT   treating diabetes mellitus.
XX
PS   Example 4; SEQ ID NO 512; 24pp; English.
XX
CC   This invention relates to a novel albumin fusion protein having albumin
CC   or biological activity. Human serum albumin is responsible for a
CC   significant proportion of the osmotic pressure of serum and also
CC   functions as a carrier of endogenous and exogenous ligands. The fusion of
CC   albumin to a therapeutic protein may increase shelf-life and stability of
CC   the therapeutic protein. The albumin fusion protein of the invention may
CC   allow production of compositions with antidiabetic activity whilst the
CC   nucleotide sequence which encodes it may be useful for gene therapy. The
CC   albumin fusion protein is useful for preparing a composition for treating
CC   diabetes mellitus. The present sequence is that of a therapeutic protein
CC   which was fused with human albumin to create a novel albumin fusion
CC   protein of the invention. Note: The sequence data for this patent did not
CC   form part of the printed specification, but was obtained in electronic
CC   format directly from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ   Sequence 249 AA;

  Query Match             100.0%;  Score 641;  DB 7;  Length 249;
```

```
  Best Local Similarity   100.0%;  Pred. No. 4.7e-52;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 5
ADG95143
ID   ADG95143 standard; protein; 249 AA.
XX
AC   ADG95143;
XX
DT   11-MAR-2004  (first entry)
XX
DE   Single chain antibody that immunospecifically binds BLyS SeqID 327.
XX
KW   antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor;
KW   B cell proliferation; differentiation; scFv; myasthenia gravis;
KW   multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
KW   carcinoma; lymphoma; antirheumatic; antiarthritic; neuroprotective;
KW   antiinflammatory; antiasthmatic; antiallergic; cytostatic.
XX
OS   Unidentified.
XX
PN   WO2003055979-A2.
XX
PD   10-JUL-2003.
XX
PF   14-NOV-2002; 2002WO-US036496.
XX
PR   16-NOV-2001; 2001US-0331469P.
PR   19-DEC-2001; 2001US-0340817P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Barash SC,  Choi GH,  Vaughan TJ,  Hilbert D;
XX
DR   WPI; 2003-505530/47.
XX
PT   Novel antibody that immunospecifically binds to a B lymphocyte stimulator
PT   (BLys), useful for detecting and treating diseases or disorders e.g.
PT   rheumatoid arthritis, asthma and leukemia.
XX
PS   Example 1; SEQ ID NO 327; 394pp; English.
XX
CC   This invention relates to novel antibodies that immunospecifically bind
CC   to B lymphocyte stimulator (BLyS). The BLyS gene has been mapped to
CC   chromosome 13q34 and encodes a protein that is a member of the tumour
CC   necrosis factor superfamily and induces both in vivo and in vitro B cell
CC   proliferation and differentiation. Specifically, it refers to single
CC   chain antibody molecules (scFvs) derived, preferably, from the variable
CC   heavy CDR3 region that immunospecifically bind to a polypeptide, or
CC   fragment thereof, of either human, murine, rat or monkey BLyS. The
CC   present invention refers to the use of such antibodies in various methods
CC   for the detection, diagnosis and prognosis of diseases related to the
CC   aberrant expression or inappropriate function of BLyS or its receptor. As
CC   such, these compositions are useful for identifying immune disorders
CC   including myasthenia gravis and multiple sclerosis, inflammatory
CC   disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
CC   as AIDS and proliferative disorders including leukaemia, carcinoma and
CC   lymphoma. Accordingly, they can be described as exhibiting various
CC   activities such as antirheumatic, antiarthritic, neuroprotective,
CC   antiinflammatory, antiasthmatic, antiallergic and cytostatic. This
CC   polypeptide sequence is a single chain antibody that binds BLyS of the
CC   invention. NOTE: The sequence data for this patent did not form part of
CC   the printed specification, but was obtained in electronic format
CC   directely from WIPO at ftp.wipo.int/pub/published pct_sequences.
XX
SQ   Sequence 249 AA;

  Query Match             100.0%;  Score 641;  DB 7;  Length 249;
  Best Local Similarity   100.0%;  Pred. No. 4.7e-52;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 6
ADF14964
ID   ADF14964 standard; protein; 848 AA.
XX
AC   ADF14964;
XX
DT   12-FEB-2004  (first entry)
XX
DE   Human albumin therapeutic fusion protein SeqID260.
XX
KW   albumin fusion protein; albumin activity; human serum albumin;
KW   serum osmotic pressure; shelf-life; stability; antidiabetic;
KW   gene therapy; diabetes mellitus; human.
XX
OS   Chimeric.
OS   Homo sapiens.
XX
PN   WO2003060071-A2.
XX
PD   24-JUL-2003.
XX
PF   23-DEC-2002; 2002WO-US040891.
XX
PR   21-DEC-2001; 2001US-0341811P.
PR   24-JAN-2002; 2002US-0350358P.
PR   28-JAN-2002; 2002US-0351360P.
PR   26-FEB-2002; 2002US-0359370P.
PR   28-FEB-2002; 2002US-0360000P.
PR   27-MAR-2002; 2002US-0367500P.
PR   08-APR-2002; 2002US-0370227P.
PR   10-MAY-2002; 2002US-0378950P.
PR   24-MAY-2002; 2002US-0382617P.
PR   28-MAY-2002; 2002US-0383123P.
PR   05-JUN-2002; 2002US-0385708P.
PR   10-JUL-2002; 2002US-0394625P.
PR   24-JUL-2002; 2002US-0398008P.
PR   09-AUG-2002; 2002US-0402131P.
PR   13-AUG-2002; 2002US-0402708P.
PR   18-SEP-2002; 2002US-0411355P.
PR   18-SEP-2002; 2002US-0411426P.
PR   02-OCT-2002; 2002US-0414984P.
PR   11-OCT-2002; 2002US-0417611P.
PR   23-OCT-2002; 2002US-0420246P.
PR   05-NOV-2002; 2002US-0423623P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (DELZ ) DELTA BIOTECHNOLOGY LTD.
PA   (PRIN-) PRINCIPIA PHARM CORP.
XX
```

PI Ballance DJ, Turner AJ, Rosen CA, Haseltine WA;
XX
DR WPI; 2003-598517/56.
XX
PT New albumin fusion protein, useful for preparing a composition for
PT treating diabetes mellitus.
XX
PS Example 4; SEQ ID NO 260; 24pp; English.
XX
CC This invention relates to a novel albumin fusion protein having albumin
CC or biological activity. Human serum albumin is responsible for a
CC significant proportion of the osmotic pressure of serum and also
CC functions as a carrier of endogenous and exogenous ligands. The fusion of
CC albumin to a therapeutic protein may increase shelf-life and stability of
CC the therapeutic protein. The albumin fusion protein of the invention may
CC allow production of compositions with antidiabetic activity whilst the
CC nucleotide sequence which encodes it may be useful for gene therapy. The
CC albumin fusion protein is useful for preparing a composition for treating
CC diabetes mellitus. The present sequence is the amino acid sequence of a
CC novel full-length human albumin therapeutic fusion protein of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ Sequence 848 AA;

Query Match 100.0%; Score 641; DB 7; Length 848;
Best Local Similarity 100.0%; Pred. No. 1.8e-51;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
Db 23 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 82

Qy 61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
Db 83 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 142

Qy 121 VSS 123
Db 143 VSS 145

RESULT 7
ADF16438
ID ADF16438 standard; protein; 850 AA.
XX
AC ADF16438;
XX
DT 12-FEB-2004 (first entry)
XX
DE Human albumin therapeutic fusion protein SeqID1535.
XX
KW albumin fusion protein; albumin activity; human serum albumin;
KW serum osmotic pressure; shelf-life; stability; antidiabetic;
KW gene therapy; diabetes mellitus; human.
XX
OS Chimeric.
OS Homo sapiens.
XX
PN WO2003060071-A2.
XX
PD 24-JUL-2003.
XX
PF 23-DEC-2002; 2002WO-US040891.
XX
PR 21-DEC-2001; 2001US-0341811P.
PR 24-JAN-2002; 2002US-0350358P.
PR 28-JAN-2002; 2002US-0351360P.
PR 26-FEB-2002; 2002US-0359370P.
PR 28-FEB-2002; 2002US-0360000P.
PR 27-MAR-2002; 2002US-0367500P.
PR 08-APR-2002; 2002US-0370227P.
PR 10-MAY-2002; 2002US-0378950P.
PR 24-MAY-2002; 2002US-0382617P.
PR 28-MAY-2002; 2002US-0383123P.
PR 05-JUN-2002; 2002US-0385708P.
PR 10-JUL-2002; 2002US-0394625P.
PR 24-JUL-2002; 2002US-0398008P.
PR 09-AUG-2002; 2002US-0402131P.
PR 13-AUG-2002; 2002US-0402708P.
PR 18-SEP-2002; 2002US-0411355P.
PR 18-SEP-2002; 2002US-0411426P.
PR 02-OCT-2002; 2002US-0414984P.
PR 11-OCT-2002; 2002US-0417611P.
PR 23-OCT-2002; 2002US-0420246P.
PR 05-NOV-2002; 2002US-0423623P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PA (DELZ) DELTA BIOTECHNOLOGY LTD.
PA (PRIN-) PRINCIPIA PHARM CORP.
XX
PI Ballance DJ, Turner AJ, Rosen CA, Haseltine WA;
XX
DR WPI; 2003-598517/56.
XX
PT New albumin fusion protein, useful for preparing a composition for
PT treating diabetes mellitus.
XX
PS Example 4; SEQ ID NO 1535; 24pp; English.
XX
CC This invention relates to a novel albumin fusion protein having albumin
CC or biological activity. Human serum albumin is responsible for a
CC significant proportion of the osmotic pressure of serum and also
CC functions as a carrier of endogenous and exogenous ligands. The fusion of
CC albumin to a therapeutic protein may increase shelf-life and stability of
CC the therapeutic protein. The albumin fusion protein of the invention may
CC allow production of compositions with antidiabetic activity whilst the
CC nucleotide sequence which encodes it may be useful for gene therapy. The
CC albumin fusion protein is useful for preparing a composition for treating
CC diabetes mellitus. The present sequence is the amino acid sequence of a
CC novel full-length human albumin therapeutic fusion protein of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ Sequence 850 AA;

Query Match 100.0%; Score 641; DB 7; Length 850;
Best Local Similarity 100.0%; Pred. No. 1.8e-51;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
Db 25 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 84

Qy 61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
Db 85 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 144

Qy 121 VSS 123
Db 145 VSS 147

RESULT 8
ADF15000
ID ADF15000 standard; protein; 864 AA.
XX
AC ADF15000;
XX
DT 12-FEB-2004 (first entry)
XX
DE Human albumin therapeutic fusion protein SeqID296.
XX
KW albumin fusion protein; albumin activity; human serum albumin;

```
KW   serum osmotic pressure; shelf-life; stability; antidiabetic;
KW   gene therapy; diabetes mellitus; human.
XX
OS   Chimeric.
OS   Homo sapiens.
XX
PN   WO2003060071-A2.
XX
PD   24-JUL-2003.
XX
PF   23-DEC-2002; 2002WO-US040891.
XX
PR   21-DEC-2001; 2001US-0341811P.
PR   24-JAN-2002; 2002US-0350358P.
PR   28-JAN-2002; 2002US-0351360P.
PR   26-FEB-2002; 2002US-0359370P.
PR   28-FEB-2002; 2002US-0360000P.
PR   27-MAR-2002; 2002US-0367500P.
PR   08-APR-2002; 2002US-0370227P.
PR   10-MAY-2002; 2002US-0378950P.
PR   24-MAY-2002; 2002US-0382617P.
PR   28-MAY-2002; 2002US-0383123P.
PR   05-JUN-2002; 2002US-0385708P.
PR   10-JUL-2002; 2002US-0394625P.
PR   24-JUL-2002; 2002US-0398008P.
PR   09-AUG-2002; 2002US-0402131P.
PR   13-AUG-2002; 2002US-0402708P.
PR   18-SEP-2002; 2002US-0411355P.
PR   18-SEP-2002; 2002US-0411426P.
PR   02-OCT-2002; 2002US-0414984P.
PR   11-OCT-2002; 2002US-0417611P.
PR   23-OCT-2002; 2002US-0420246P.
PR   05-NOV-2002; 2002US-0423623P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (DELZ ) DELTA BIOTECHNOLOGY LTD.
PA   (PRIN-) PRINCIPIA PHARM CORP.
XX
PI   Ballance DJ,  Turner AJ,  Rosen CA,  Haseltine WA;
XX
DR   WPI; 2003-598517/56.
XX
PT   New albumin fusion protein, useful for preparing a composition for
PT   treating diabetes mellitus.
XX
PS   Example 4; SEQ ID NO 296; 24pp; English.
XX
CC   This invention relates to a novel albumin fusion protein having albumin
CC   or biological activity. Human serum albumin is responsible for a
CC   significant proportion of the osmotic pressure of serum and also
CC   functions as a carrier of endogenous and exogenous ligands. The fusion of
CC   albumin to a therapeutic protein may increase shelf-life and stability of
CC   the therapeutic protein. The albumin fusion protein of the invention may
CC   allow production of compositions with antidiabetic activity whilst the
CC   nucleotide sequence which encodes it may be useful for gene therapy. The
CC   albumin fusion protein is useful for preparing a composition for treating
CC   diabetes mellitus. The present sequence is the amino acid sequence of a
CC   novel full-length human albumin therapeutic fusion protein of the
CC   invention. Note: The sequence data for this patent did not form part of
CC   the printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/publishedpct_sequences
XX
SQ   Sequence 864 AA;

  Query Match             100.0%;  Score 641;  DB 7;  Length 864;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-51;
  Matches  123;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        610 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 669

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        670 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 729

Qy        121 VSS 123
              |||
Db        730 VSS 732


RESULT 9
ABP44774
ID   ABP44774 standard; protein; 249 AA.
XX
AC   ABP44774;
XX
DT   19-AUG-2002  (first entry)
XX
DE   Human BLyS binding scFv SEQ ID 785.
XX
KW   BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KW   tumour necrosis factor; B cell proliferation; B cell differentiation;
KW   immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
KW   antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KW   systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KW   common variable immunodeficiency; acquired immunodeficiency syndrome.
XX
OS   Homo sapiens.
XX
PN   WO200202641-A1.
XX
PD   10-JAN-2002.
XX
PF   15-JUN-2001; 2001WO-US019110.
XX
PR   16-JUN-2000; 2000US-0212210P.
PR   17-OCT-2000; 2000US-0240816P.
PR   16-MAR-2001; 2001US-0276248P.
PR   21-MAR-2001; 2001US-0277379P.
PR   25-MAY-2001; 2001US-0293499P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI   Ruben SM,  Barash SC,  Choi GH,  Vaughan T,  Hilbert D;
XX
DR   WPI; 2002-114799/15.
XX
PT   Antibodies against B Lymphocyte Stimulating polypeptides, useful for the
PT   diagnosis and treatment of cancers and immune disorders.
XX
PS   Claim 1; Page 1338-1339; 3148pp; English.
XX
CC   This invention describes novel antibodies that immunospecifically bind to
CC   B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC   tumour necrosis factor (TNF) super family and induces B cell
CC   proliferation and differentiation. The antibodies of the invention have
CC   cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC   antirheumatic and antiAIDS activity and can be used in vaccines to
CC   inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC   and so may be used to detect and quantitate the presence of BLyS in
CC   biological samples and may be used in this way to diagnose disease
CC   associated with aberrant expression of BLyS. They may also be
CC   administered to treat diseases associated with aberrant BLyS expression
CC   and activity such as cancer, immune, and autoimmune disorders and
CC   diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC   immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC   acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC   the antibodies and fragments of the antibodies described in the method of
CC   the invention
XX
SQ   Sequence 249 AA;

  Query Match             97.7%;  Score 626;  DB 5;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.2e-50;
```

```
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||||| | |||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLEPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123
```

RESULT 10
ADG95601
ID ADG95601 standard; protein; 249 AA.
XX
AC ADG95601;
XX
DT 11-MAR-2004 (first entry)
XX
DE Single chain antibody that immunospecifically binds BLyS SeqID 785.
XX
KW antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor;
KW B cell proliferation; differentiation; scFv; myasthenia gravis;
KW multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
KW carcinoma; lymphoma; antirheumatic; antiarthritic; neuroprotective;
KW antiinflammatory; antiasthmatic; antiallergic; cytostatic.
XX
OS Unidentified.
XX
PN WO2003055979-A2.
XX
PD 10-JUL-2003.
XX
PF 14-NOV-2002; 2002WO-US036496.
XX
PR 16-NOV-2001; 2001US-0331469P.
PR 19-DEC-2001; 2001US-0340817P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Choi GH, Vaughan TJ, Hilbert D;
XX
DR WPI; 2003-505530/47.
XX
PT Novel antibody that immunospecifically binds to a B lymphocyte stimulator
PT (BLys), useful for detecting and treating diseases or disorders e.g.
PT rheumatoid arthritis, asthma and leukemia.
XX
PS Example 1; SEQ ID NO 785; 394pp; English.
XX
CC This invention relates to novel antibodies that immunospecifically bind
CC to B lymphocyte stimulator (BLyS). The BLyS gene has been mapped to
CC chromosome 13q34 and encodes a protein that is a member of the tumour
CC necrosis factor superfamily and induces both in vivo and in vitro B cell
CC proliferation and differentiation. Specifically, it refers to single
CC chain antibody molecules (scFvs) derived, preferably, from the variable
CC heavy CDR3 region that immunospecifically bind to a polypeptide, or
CC fragment thereof, of either human, murine, rat or monkey BLyS. The
CC present invention refers to the use of such antibodies in various methods
CC for the detection, diagnosis and prognosis of diseases related to the
CC aberrant expression or inappropriate function of BLyS or its receptor. As
CC such, these compositions are useful for identifying immune disorders
CC including myasthenia gravis and multiple sclerosis, inflammatory
CC disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
CC as AIDS and proliferative disorders including leukaemia, carcinoma and
CC lymphoma. Accordingly, they can be described as exhibiting various
CC activities such as antirheumatic, antiarthritic, neuroprotective,
CC antiinflammatory, antiasthmatic, antiallergic and cytostatic. This
CC polypeptide sequence is a single chain antibody that binds BLyS of the
CC invention. NOTE: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format
CC directely from WIPO at ftp.wipo.int/pub/published pct_sequences.
XX
SQ Sequence 249 AA;

```
  Query Match             97.7%;  Score 626;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 1.2e-50;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||||| | |||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHPLEPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123
```

RESULT 11
ABP44793
ID ABP44793 standard; protein; 249 AA.
XX
AC ABP44793;
XX
DT 19-AUG-2002 (first entry)
XX
DE Human BLyS binding scFv SEQ ID 804.
XX
KW BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KW tumour necrosis factor; B cell proliferation; B cell differentiation;
KW immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
KW antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KW systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KW common variable immunodeficiency; acquired immunodeficiency syndrome.
XX
OS Homo sapiens.
XX
PN WO200202641-A1.
XX
PD 10-JAN-2002.
XX
PF 15-JUN-2001; 2001WO-US019110.
XX
PR 16-JUN-2000; 2000US-0212210P.
PR 17-OCT-2000; 2000US-0240816P.
PR 16-MAR-2001; 2001US-0276248P.
PR 21-MAR-2001; 2001US-0277379P.
PR 25-MAY-2001; 2001US-0293499P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
XX
DR WPI; 2002-114799/15.
XX
PT Antibodies against B Lymphocyte Stimulating polypeptides, useful for the
PT diagnosis and treatment of cancers and immune disorders.
XX
PS Claim 1; Page 1360-1361; 3148pp; English.
XX
CC This invention describes novel antibodies that immunospecifically bind to
CC B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC tumour necrosis factor (TNF) super family and induces B cell
CC proliferation and differentiation. The antibodies of the invention have
CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC antirheumatic and antiAIDS activity and can be used in vaccines to
CC inhibit the expression and activity of BLyS. The antibodies bind to BLyS

```
CC   and so may be used to detect and quantitate the presence of BLyS in
CC   biological samples and may be used in this way to diagnose disease
CC   associated with aberrant expression of BLyS. They may also be
CC   administered to treat diseases associated with aberrant BLyS expression
CC   and activity such as cancer, immune, and autoimmune disorders and
CC   diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC   immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC   acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC   the antibodies and fragments of the antibodies described in the method of
CC   the invention
XX
SQ   Sequence 249 AA;

  Query Match             97.0%;  Score 622;  DB 5;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.8e-50;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| ||||||||||||||||||||||||||||||  ||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHHALDVWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 12
ABP44516
ID   ABP44516 standard; protein; 249 AA.
XX
AC   ABP44516;
XX
DT   19-AUG-2002  (first entry)
XX
DE   Human BLyS binding scFv SEQ ID 527.
XX
KW   BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KW   tumour necrosis factor; B cell proliferation; B cell differentiation;
KW   immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
KW   antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KW   systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KW   common variable immunodeficiency; acquired immunodeficiency syndrome.
XX
OS   Homo sapiens.
XX
PN   WO200202641-A1.
XX
PD   10-JAN-2002.
XX
PF   15-JUN-2001; 2001WO-US019110.
XX
PR   16-JUN-2000; 2000US-0212210P.
PR   17-OCT-2000; 2000US-0240816P.
PR   16-MAR-2001; 2001US-0276248P.
PR   21-MAR-2001; 2001US-0277379P.
PR   25-MAY-2001; 2001US-0293499P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI   Ruben SM,  Barash SC,  Choi GH,  Vaughan T,  Hilbert D;
XX
DR   WPI; 2002-114799/15.
XX
PT   Antibodies against B Lymphocyte Stimulating polypeptides, useful for the
PT   diagnosis and treatment of cancers and immune disorders.
XX
PS   Claim 1; Page 1031-1032; 3148pp; English.
XX
CC   This invention describes novel antibodies that immunospecifically bind to
CC   B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC   tumour necrosis factor (TNF) super family and induces B cell
CC   proliferation and differentiation. The antibodies of the invention have
CC   cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC   antirheumatic and antiAIDS activity and can be used in vaccines to
CC   inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC   and so may be used to detect and quantitate the presence of BLyS in
CC   biological samples and may be used in this way to diagnose disease
CC   associated with aberrant expression of BLyS. They may also be
CC   administered to treat diseases associated with aberrant BLyS expression
CC   and activity such as cancer, immune, and autoimmune disorders and
CC   diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC   immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC   acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC   the antibodies and fragments of the antibodies described in the method of
CC   the invention
XX
SQ   Sequence 249 AA;

  Query Match             97.0%;  Score 622;  DB 5;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.8e-50;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||| | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPQHPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 13
ABP44673
ID   ABP44673 standard; protein; 249 AA.
XX
AC   ABP44673;
XX
DT   19-AUG-2002  (first entry)
XX
DE   Human BLyS binding scFv SEQ ID 684.
XX
KW   BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;
KW   tumour necrosis factor; B cell proliferation; B cell differentiation;
KW   immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
KW   antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
KW   systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KW   common variable immunodeficiency; acquired immunodeficiency syndrome.
XX
OS   Homo sapiens.
XX
PN   WO200202641-A1.
XX
PD   10-JAN-2002.
XX
PF   15-JUN-2001; 2001WO-US019110.
XX
PR   16-JUN-2000; 2000US-0212210P.
PR   17-OCT-2000; 2000US-0240816P.
PR   16-MAR-2001; 2001US-0276248P.
PR   21-MAR-2001; 2001US-0277379P.
PR   25-MAY-2001; 2001US-0293499P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
PA   (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX
PI   Ruben SM,  Barash SC,  Choi GH,  Vaughan T,  Hilbert D;
XX
```

```
DR   WPI; 2002-114799/15.
XX
PT   Antibodies against B Lymphocyte Stimulating polypeptides, useful for the
PT   diagnosis and treatment of cancers and immune disorders.
XX
PS   Claim 1; Page 1218-1219; 3148pp; English.
XX
CC   This invention describes novel antibodies that immunospecifically bind to
CC   B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC   tumour necrosis factor (TNF) super family and induces B cell
CC   proliferation and differentiation. The antibodies of the invention have
CC   cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC   antirheumatic and antiAIDS activity and can be used in vaccines to
CC   inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC   and so may be used to detect and quantitate the presence of BLyS in
CC   biological samples and may be used in this way to diagnose disease
CC   associated with aberrant expression of BLyS. They may also be
CC   administered to treat diseases associated with aberrant BLyS expression
CC   and activity such as cancer, immune, and autoimmune disorders and
CC   diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC   immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC   acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
CC   the antibodies and fragments of the antibodies described in the method of
CC   the invention
XX
SQ   Sequence 249 AA;

  Query Match             97.0%;  Score 622;  DB 5;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.8e-50;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHEPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 14
ADG95343
ID   ADG95343 standard; protein; 249 AA.
XX
AC   ADG95343;
XX
DT   11-MAR-2004  (first entry)
XX
DE   Single chain antibody that immunospecifically binds BLyS SeqID 527.
XX
KW   antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor;
KW   B cell proliferation; differentiation; scFv; myasthenia gravis;
KW   multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
KW   carcinoma; lymphoma; antirheumatic; antiarthritic; neuroprotective;
KW   antiinflammatory; antiasthmatic; antiallergic; cytostatic.
XX
OS   Unidentified.
XX
PN   WO2003055979-A2.
XX
PD   10-JUL-2003.
XX
PF   14-NOV-2002; 2002WO-US036496.
XX
PR   16-NOV-2001; 2001US-0331469P.
PR   19-DEC-2001; 2001US-0340817P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Barash SC,  Choi GH,  Vaughan TJ,  Hilbert D;
XX
DR   WPI; 2003-505530/47.
XX
PT   Novel antibody that immunospecifically binds to a B lymphocyte stimulator
PT   (BLys), useful for detecting and treating diseases or disorders e.g.
PT   rheumatoid arthritis, asthma and leukemia.
XX
PS   Example 1; SEQ ID NO 527; 394pp; English.
XX
CC   This invention relates to novel antibodies that immunospecifically bind
CC   to B lymphocyte stimulator (BLyS). The BLyS gene has been mapped to
CC   chromosome 13q34 and encodes a protein that is a member of the tumour
CC   necrosis factor superfamily and induces both in vivo and in vitro B cell
CC   proliferation and differentiation. Specifically, it refers to single
CC   chain antibody molecules (scFvs) derived, preferably, from the variable
CC   heavy CDR3 region that immunospecifically bind to a polypeptide, or
CC   fragment thereof, of either human, murine, rat or monkey BLyS. The
CC   present invention refers to the use of such antibodies in various methods
CC   for the detection, diagnosis and prognosis of diseases related to the
CC   aberrant expression or inappropriate function of BLyS or its receptor. As
CC   such, these compositions are useful for identifying immune disorders
CC   including myasthenia gravis and multiple sclerosis, inflammatory
CC   disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
CC   as AIDS and proliferative disorders including leukaemia, carcinoma and
CC   lymphoma. Accordingly, they can be described as exhibiting various
CC   activities such as antirheumatic, antiarthritic, neuroprotective,
CC   antiinflammatory, antiasthmatic, antiallergic and cytostatic. This
CC   polypeptide sequence is a single chain antibody that binds BLyS of the
CC   invention. NOTE: The sequence data for this patent did not form part of
CC   the printed specification, but was obtained in electronic format
CC   directely from WIPO at ftp.wipo.int/pub/published pct_sequences.
XX
SQ   Sequence 249 AA;

  Query Match             97.0%;  Score 622;  DB 7;  Length 249;
  Best Local Similarity   97.6%;  Pred. No. 2.8e-50;
  Matches  120;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              ||||||||||||||| |||||||||||||||||||||||||||  | ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPQHPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123


RESULT 15
ADG95500
ID   ADG95500 standard; protein; 249 AA.
XX
AC   ADG95500;
XX
DT   11-MAR-2004  (first entry)
XX
DE   Single chain antibody that immunospecifically binds BLyS SeqID 684.
XX
KW   antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor;
KW   B cell proliferation; differentiation; scFv; myasthenia gravis;
KW   multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia;
KW   carcinoma; lymphoma; antirheumatic; antiarthritic; neuroprotective;
KW   antiinflammatory; antiasthmatic; antiallergic; cytostatic.
XX
OS   Unidentified.
XX
PN   WO2003055979-A2.
XX
PD   10-JUL-2003.
```

XX
PF 14-NOV-2002; 2002WO-US036496.
XX
PR 16-NOV-2001; 2001US-0331469P.
PR 19-DEC-2001; 2001US-0340817P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Choi GH, Vaughan TJ, Hilbert D;
XX
DR WPI; 2003-505530/47.
XX
PT Novel antibody that immunospecifically binds to a B lymphocyte stimulator
PT (BLys), useful for detecting and treating diseases or disorders e.g.
PT rheumatoid arthritis, asthma and leukemia.
XX
PS Example 1; SEQ ID NO 684; 394pp; English.
XX
CC This invention relates to novel antibodies that immunospecifically bind
CC to B lymphocyte stimulator (BLyS). The BLyS gene has been mapped to
CC chromosome 13q34 and encodes a protein that is a member of the tumour
CC necrosis factor superfamily and induces both in vivo and in vitro B cell
CC proliferation and differentiation. Specifically, it refers to single
CC chain antibody molecules (scFvs) derived, preferably, from the variable
CC heavy CDR3 region that immunospecifically bind to a polypeptide, or
CC fragment thereof, of either human, murine, rat or monkey BLyS. The
CC present invention refers to the use of such antibodies in various methods
CC for the detection, diagnosis and prognosis of diseases related to the
CC aberrant expression or inappropriate function of BLyS or its receptor. As
CC such, these compositions are useful for identifying immune disorders
CC including myasthenia gravis and multiple sclerosis, inflammatory
CC disorders e.g. asthma and rheumatoid arthritis, infectious diseases such
CC as AIDS and proliferative disorders including leukaemia, carcinoma and
CC lymphoma. Accordingly, they can be described as exhibiting various
CC activities such as antirheumatic, antiarthritic, neuroprotective,
CC antiinflammatory, antiasthmatic, antiallergic and cytostatic. This
CC polypeptide sequence is a single chain antibody that binds BLyS of the
CC invention. NOTE: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format
CC directely from WIPO at ftp.wipo.int/pub/published pct_sequences.
XX
SQ Sequence 249 AA;

Query Match 97.0%; Score 622; DB 7; Length 249;
Best Local Similarity 97.6%; Pred. No. 2.8e-50;
Matches 120; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 QVQLQQSGAEVKKPGSSVRVSCKASGGTFNNNAINWVRQAPGQGLEWMGGIIPMFGTAKY 60

Qy         61 SQNFQGRVAITADESTGTASMELSSLRSEDTAVYYCARSRDLLLFPHHALSPWGRGTMVT 120
              |||||||||||||||| |||||||||||||||||||||||||||  ||||||||||
Db         61 SQNFQGRVAITADESTSTASMELSSLRSEDTAVYYCARSRDLLLFPHEPLSPWGRGTMVT 120

Qy        121 VSS 123
              |||
Db        121 VSS 123
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Search completed: April 11, 2005, 07:00:38
Job time : 132.953 secs

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OM protein - protein search, using sw model

Run on: April 7, 2005, 17:50:51 ; Search time 110.338 Seconds
(without alignments)
501.230 Million cell updates/sec

Title: US-09-880-748-1_COPY_141_249
Perfect score: 564
Sequence: 1 LTQPASVSGSPGQSITISCT.....SYTTRSTRVFGGGTKLTVLG 108

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	516.5	91.6	233	2	Q6PJA3	Q6pja3 homo sapien
2	497	88.1	111	1	LV2B_HUMAN	P01705 homo sapien
3	496.5	88.0	112	1	LV2K_HUMAN	P04209 homo sapien
4	491	87.1	235	2	Q6PJG0	Q6pjg0 homo sapien
5	487	86.3	235	2	Q6PIK1	Q6pik1 homo sapien
6	484.5	85.9	236	2	Q6IPQ0	Q6ipq0 homo sapien
7	476	84.4	111	1	LV2H_HUMAN	P01711 homo sapien
8	473.5	84.0	236	2	Q6PIQ7	Q6piq7 homo sapien
9	468.5	83.1	236	2	Q6P5S3	Q6p5s3 homo sapien
10	460	81.6	111	1	LV2D_HUMAN	P01707 homo sapien
11	459	81.4	111	1	LV2F_HUMAN	P01709 homo sapien
12	456	80.9	111	1	LV2C_HUMAN	P01706 homo sapien
13	452	80.1	235	2	Q6P2J1	Q6p2j1 homo sapien
14	448	79.4	111	1	LV2G_HUMAN	P01710 homo sapien
15	447	79.3	111	1	LV2A_HUMAN	P01704 homo sapien
16	437	77.5	109	1	LV2E_HUMAN	P01708 homo sapien
17	432	76.6	111	1	LV2I_HUMAN	P01712 homo sapien
18	403.5	71.5	110	1	LV2J_HUMAN	P01713 homo sapien
19	385.5	68.4	236	2	Q6GMX4	Q6gmx4 homo sapien
20	382	67.7	110	2	Q8TE63	Q8te63 homo sapien
21	381.5	67.6	236	2	Q6GMX3	Q6gmx3 homo sapien
22	372	66.0	130	1	LV1G_HUMAN	P06316 homo sapien
23	372	66.0	235	2	Q6IN99	Q6in99 homo sapien
24	369.5	65.5	236	2	Q96E61	Q96e61 homo sapien
25	367	65.1	111	1	LV1D_HUMAN	P01702 homo sapien
26	366.5	65.0	112	1	LV1B_HUMAN	P01700 homo sapien
27	366	64.9	111	1	LV2L_HUMAN	P80422 homo sapien
28	365.5	64.8	165	2	Q6ZNX5	Q6znx5 homo sapien
29	365.5	64.8	236	2	Q8NEJ1	Q8nej1 homo sapien
30	360	63.8	109	1	LV1F_HUMAN	P04208 homo sapien
31	358.5	63.6	112	2	Q96JD1	Q96jd1 homo sapien
32	357	63.3	235	2	Q6GMW6	Q6gmw6 homo sapien
33	355	62.9	103	1	LV1E_HUMAN	P01703 homo sapien
34	355	62.9	106	1	LV4E_HUMAN	P06889 homo sapien
35	355	62.9	111	1	LV6C_HUMAN	P06317 homo sapien
36	354.5	62.9	236	2	Q6GMV7	Q6gmv7 homo sapien
37	350	62.1	116	2	Q96JD0	Q96jd0 homo sapien
38	349	61.9	112	2	Q96JD2	Q96jd2 homo sapien
39	348	61.7	111	1	LV6D_HUMAN	P06318 homo sapien
40	345	61.2	111	1	LV1A_HUMAN	P01699 homo sapien
41	345	61.2	111	1	LV1C_HUMAN	P01701 homo sapien
42	344.5	61.1	112	1	LV6A_HUMAN	P01721 homo sapien
43	344.5	61.1	131	1	LV6E_HUMAN	P06319 homo sapien
44	343	60.8	109	1	LV1I_HUMAN	P06888 homo sapien
45	338	59.9	101	2	Q8IZD8	Q8izd8 homo sapien
46	338	59.9	106	1	LV4A_HUMAN	P01715 homo sapien
47	336	59.6	237	2	Q6DHW4	Q6dhw4 homo sapien
48	334.5	59.3	108	2	Q96SB0	Q96sb0 homo sapien
49	333.5	59.1	112	1	LV1H_HUMAN	P06887 homo sapien
50	332	58.9	233	2	Q8TBC9	Q8tbc9 homo sapien
51	327.5	58.1	107	2	Q9UL82	Q9ul82 homo sapien
52	320	56.7	231	2	Q6GNB8	Q6gnb8 xenopus lae
53	319	56.6	106	1	LV4B_HUMAN	P01716 homo sapien
54	317	56.2	107	1	LV4C_HUMAN	P01717 homo sapien
55	316.5	56.1	112	1	LV6B_HUMAN	P01722 homo sapien
56	316	56.0	107	2	Q9NSD6	Q9nsd6 homo sapien
57	315.5	55.9	234	2	Q8N355	Q8n355 homo sapien
58	314.5	55.8	234	2	Q6GMW3	Q6gmw3 homo sapien
59	310	55.0	106	1	LV4D_HUMAN	P01718 homo sapien
60	310	55.0	108	1	LV3A_HUMAN	P01714 homo sapien
61	310	55.0	108	1	LV5A_HUMAN	P01719 homo sapien
62	309	54.8	233	2	Q8N5F4	Q8n5f4 homo sapien
63	308.5	54.7	148	2	Q6PJ28	Q6pj28 homo sapien
64	306	54.3	233	2	Q6GMW4	Q6gmw4 homo sapien
65	305	54.1	233	2	Q6GNH3	Q6gnh3 xenopus lae
66	302	53.5	111	1	LV3B_HUMAN	P80748 homo sapien
67	300	53.2	235	2	Q99MI1	Q99mi1 mus musculu
68	294.5	52.2	234	2	Q6GMV8	Q6gmv8 homo sapien
69	290	51.4	233	2	Q6NS96	Q6ns96 homo sapien
70	289.5	51.3	234	2	Q6NS95	Q6ns95 homo sapien
71	269.5	47.8	113	1	LV1_CHICK	P04210 gallus gall
72	269	47.7	233	2	Q96I69	Q96i69 homo sapien
73	268	47.5	111	1	LV7A_HUMAN	P01720 homo sapien
74	267.5	47.4	108	1	KV07_RABIT	P01688 oryctolagus
75	263	46.6	112	2	Q8K1F3	Q8k1f3 mus musculu
76	263	46.6	134	2	Q8VDD0	Q8vdd0 mus musculu
77	262.5	46.5	129	1	KV1W_HUMAN	P04431 homo sapien
78	261.5	46.4	131	2	Q811C3	Q811c3 mus musculu
79	260.5	46.2	234	2	Q7Z2U7	Q7z2u7 homo sapien
80	260	46.1	107	2	Q96SA9	Q96sa9 homo sapien
81	258	45.7	107	2	Q9UL81	Q9ul81 homo sapien
82	258	45.7	114	2	Q8K1F1	Q8k1f1 mus musculu
83	258	45.7	133	1	KV4B_HUMAN	P06313 homo sapien
84	257.5	45.7	108	2	Q9UL70	Q9ul70 homo sapien
85	257.5	45.7	236	2	Q6PIH4	Q6pih4 homo sapien
86	257	45.6	112	2	Q8K1F0	Q8k1f0 mus musculu
87	254	45.0	108	1	KV6K_MOUSE	P04945 mus musculu
88	254	45.0	129	1	KV3L_HUMAN	P18135 homo sapien
89	253	44.9	101	2	Q9JL78	Q9jl78 mus musculu
90	253	44.9	106	2	Q9U410	Q9u410 schistosoma
91	252.5	44.8	244	2	Q65ZC8	Q65zc8 homo sapien
92	251	44.5	109	1	KV1T_HUMAN	P01612 homo sapien
93	251	44.5	112	2	Q8K1F2	Q8k1f2 mus musculu
94	250	44.3	97	2	Q9JL76	Q9jl76 mus musculu
95	250	44.3	109	2	Q9UL78	Q9ul78 homo sapien
96	249.5	44.2	108	1	KV1A_HUMAN	P01593 homo sapien
97	249.5	44.2	108	1	KV1O_HUMAN	P01607 homo sapien
98	249.5	44.2	111	1	KV3R_MOUSE	P01670 mus musculu
99	249.5	44.2	236	2	Q7Z3Y4	Q7z3y4 homo sapien
100	249	44.1	109	1	KV3E_HUMAN	P01623 homo sapien
101	248.5	44.1	108	1	KV1V_HUMAN	P04430 homo sapien
102	248.5	44.1	108	1	KV1Y_HUMAN	P80362 homo sapien
103	248	44.0	107	1	KV6G_MOUSE	P04941 mus musculu
104	247.5	43.9	108	1	KV1H_HUMAN	P01600 homo sapien

105	247.5	43.9	108	2	Q9UL77	Q9ul77 homo sapien
106	247.5	43.9	240	2	Q65ZC9	Q65zc9 homo sapien
107	247	43.8	107	1	KV6F_MOUSE	P04940 mus musculu
108	247	43.8	107	1	KV6H_MOUSE	P04942 mus musculu
109	247	43.8	109	2	Q9UL85	Q9ul85 homo sapien
110	246.5	43.7	236	2	Q6P5S8	Q6p5s8 homo sapien
111	246.5	43.7	236	2	Q6PIL8	Q6pil8 homo sapien
112	245.5	43.5	236	2	Q6PIH7	Q6pih7 homo sapien
113	244.5	43.4	108	1	KV1F_HUMAN	P01598 homo sapien
114	244.5	43.4	111	1	KV3L_MOUSE	P01664 mus musculu
115	244.5	43.4	234	2	Q7Z473	Q7z473 homo sapien
116	244	43.3	117	1	KV10_RABIT	P01691 oryctolagus
117	244	43.3	235	2	Q6GMW0	Q6gmw0 homo sapien
118	243.5	43.2	108	1	KV1E_HUMAN	P01597 homo sapien
119	243.5	43.2	114	1	KV4A_HUMAN	P01625 homo sapien
120	243	43.1	81	2	Q7Z2E8	Q7z2e8 homo sapien
121	243	43.1	107	1	KV6J_MOUSE	P04944 mus musculu
122	242.5	43.0	108	1	KV1P_HUMAN	P01608 homo sapien
123	242.5	43.0	111	2	Q920E9	Q920e9 mus musculu
124	242	42.9	107	1	KV6I_MOUSE	P04943 mus musculu
125	242	42.9	109	1	KV3G_HUMAN	P04206 homo sapien
126	242	42.9	113	2	Q8CGS1	Q8cgs1 mus musculu
127	242	42.9	240	2	Q6PIH6	Q6pih6 homo sapien
128	241.5	42.8	109	1	KV03_RABIT	P01684 oryctolagus
129	241.5	42.8	230	2	Q7Z2U3	Q7z2u3 homo sapien
130	241.5	42.8	298	2	Q9QYF0	Q9qyf0 synthetic c
131	241	42.7	107	1	KV6A_MOUSE	P01675 mus musculu
132	241	42.7	107	1	KV6D_MOUSE	P01678 mus musculu
133	241	42.7	111	1	KV12_RABIT	P01693 oryctolagus
134	241	42.7	235	2	Q6GMV9	Q6gmv9 homo sapien
135	240.5	42.6	236	2	Q7TS98	Q7ts98 mus musculu
136	240	42.6	235	2	Q6PJF2	Q6pjf2 homo sapien
137	240	42.6	255	2	Q6KB05	Q6kb05 mus musculu
138	239.5	42.5	108	1	KV08_RABIT	P01689 oryctolagus
139	239.5	42.5	108	1	KV1B_HUMAN	P01594 homo sapien
140	239.5	42.5	236	2	Q6GMW1	Q6gmw1 homo sapien
141	239	42.4	109	1	KV3B_HUMAN	P01620 homo sapien
142	238.5	42.3	108	1	KV5J_MOUSE	P01643 mus musculu
143	238.5	42.3	134	1	KV4C_HUMAN	P06314 homo sapien
144	238.5	42.3	236	2	Q6GMX9	Q6gmx9 homo sapien
145	238	42.2	108	1	KV3A_HUMAN	P01619 homo sapien
146	238	42.2	109	1	KV3D_HUMAN	P01622 homo sapien
147	238	42.2	243	2	Q7TQM2	Q7tqm2 mus musculu
148	237.5	42.1	108	2	Q9UL79	Q9ul79 homo sapien
149	237.5	42.1	110	1	KV01_RABIT	P01682 oryctolagus
150	237.5	42.1	136	1	KV5B_MOUSE	P01634 mus musculu
151	237.5	42.1	236	2	Q6GMX8	Q6gmx8 homo sapien
152	237	42.0	129	1	KV3H_HUMAN	P04207 homo sapien
153	236.5	41.9	110	1	KV13_RABIT	P01694 oryctolagus
154	236.5	41.9	236	2	Q6PIT5	Q6pit5 homo sapien
155	236	41.8	129	1	KV3M_HUMAN	P18136 homo sapien
156	235.5	41.8	111	1	KV3T_MOUSE	P01672 mus musculu
157	235	41.7	107	1	KV6B_MOUSE	P01676 mus musculu
158	235	41.7	243	2	Q6NTU5	Q6ntu5 xenopus lae
159	234.5	41.6	108	1	KV1M_HUMAN	P01605 homo sapien
160	234.5	41.6	109	2	Q920E6	Q920e6 mus musculu
161	234.5	41.6	111	1	KV3S_MOUSE	P01671 mus musculu
162	234	41.5	110	1	KV3P_MOUSE	P01668 mus musculu
163	234	41.5	239	2	Q8NEK0	Q8nek0 homo sapien
164	233.5	41.4	108	1	KV06_RABIT	P01687 oryctolagus
165	233.5	41.4	109	1	KV14_RABIT	P01695 oryctolagus
166	233.5	41.4	110	1	LV1C_MOUSE	P01725 mus musculu
167	233.5	41.4	111	1	KV3H_MOUSE	P01660 mus musculu
168	233.5	41.4	111	1	KV3M_MOUSE	P01665 mus musculu
169	233.5	41.4	111	1	KV3O_MOUSE	P01667 mus musculu
170	233.5	41.4	111	1	KV3U_MOUSE	P01673 mus musculu
171	233	41.3	107	1	KV1D_HUMAN	P01596 homo sapien
172	233	41.3	107	1	KV6C_MOUSE	P01677 mus musculu
173	232.5	41.2	111	1	KV3N_MOUSE	P01666 mus musculu
174	232.5	41.2	236	2	Q6GMX0	Q6gmx0 homo sapien
175	231.5	41.0	108	1	KV05_RABIT	P01686 oryctolagus
176	231.5	41.0	129	1	LV1B_MOUSE	P01724 mus musculu
177	231	41.0	111	2	Q65ZN3	Q65zn3 mus musculu
178	230.5	40.9	111	1	KV3J_MOUSE	P01662 mus musculu
179	230.5	40.9	129	1	KV1X_HUMAN	P04432 homo sapien
180	230	40.8	108	1	KV1L_HUMAN	P01604 homo sapien
181	230	40.8	112	1	KV3B_MOUSE	P01655 mus musculu
182	230	40.8	245	2	Q6GNC5	Q6gnc5 xenopus lae
183	229.5	40.7	108	1	KV1G_HUMAN	P01599 homo sapien
184	229.5	40.7	110	1	KV15_RABIT	P01696 oryctolagus
185	229.5	40.7	131	1	KV3I_MOUSE	P01661 mus musculu
186	229	40.6	117	1	KV1J_HUMAN	P01602 homo sapien
187	228.5	40.5	108	1	KV1S_HUMAN	P01611 homo sapien
188	228.5	40.5	108	1	KV5N_MOUSE	P01647 mus musculu
189	228.5	40.5	108	2	Q9UL83	Q9ul83 homo sapien
190	228.5	40.5	111	1	KV3C_MOUSE	P01656 mus musculu
191	228	40.4	129	1	KV4A_MOUSE	P01680 mus musculu
192	227.5	40.3	149	1	KV5A_MOUSE	P01633 mus musculu
193	227.5	40.3	237	2	Q7SZ36	Q7sz36 xenopus lae
194	227	40.2	108	1	KV1N_HUMAN	P01606 homo sapien
195	227	40.2	117	1	KV2E_HUMAN	P06309 homo sapien
196	227	40.2	121	1	KV40_HUMAN	P06312 homo sapien
197	226.5	40.2	111	1	KV3D_MOUSE	P03977 mus musculu
198	226.5	40.2	111	1	KV3Q_MOUSE	P01669 mus musculu
199	226.5	40.2	111	2	Q811U6	Q811u6 mus musculu
200	226.5	40.2	128	1	KV3K_HUMAN	P06311 homo sapien
201	226.5	40.2	129	1	LV1D_MOUSE	P01726 mus musculu
202	226	40.1	109	2	Q9UL86	Q9ul86 homo sapien
203	225.5	40.0	107	1	KV04_RABIT	P01685 oryctolagus
204	225.5	40.0	108	1	KV1K_HUMAN	P01603 homo sapien
205	225.5	40.0	108	1	KV5K_MOUSE	P01644 mus musculu
206	225.5	40.0	108	1	KV5O_MOUSE	P01648 mus musculu
207	225.5	40.0	109	1	KV4D_HUMAN	P83593 homo sapien
208	225.5	40.0	111	1	KV3A_MOUSE	P01654 mus musculu
209	225	39.9	109	1	KV3F_HUMAN	P01624 homo sapien
210	224.5	39.8	108	1	KV1R_HUMAN	P01610 homo sapien
211	224.5	39.8	108	1	KV5L_MOUSE	P01645 mus musculu
212	224	39.7	107	1	KV6E_MOUSE	P01679 mus musculu
213	224	39.7	108	1	KV3V_MOUSE	P01674 mus musculu
214	224	39.7	115	1	KV3I_HUMAN	P04433 homo sapien
215	223.5	39.6	108	1	KV5M_MOUSE	P01646 mus musculu
216	223.5	39.6	108	1	KV5P_MOUSE	P01649 mus musculu
217	223.5	39.6	128	1	KV5E_MOUSE	P01637 mus musculu
218	223.5	39.6	129	1	LV1E_MOUSE	P01727 mus musculu
219	223.5	39.6	130	1	KV5G_MOUSE	P01639 mus musculu
220	222.5	39.5	100	1	KV3C_HUMAN	P01621 homo sapien
221	222.5	39.5	108	1	KV1C_HUMAN	P01595 homo sapien
222	222.5	39.5	111	1	KV3K_MOUSE	P01663 mus musculu
223	222.5	39.5	115	1	KV02_RABIT	P01683 oryctolagus
224	221.5	39.3	240	2	Q63ZL4	Q63zl4 xenopus lae
225	221	39.2	108	1	KV5S_MOUSE	P01652 mus musculu
226	221	39.2	109	2	Q9ETI3	Q9et13 mus musculu
227	221	39.2	113	1	KV2G_MOUSE	P01631 mus musculu
228	221	39.2	114	1	KV16_RABIT	P01697 oryctolagus
229	221	39.2	219	2	Q65ZC0	Q65zc0 mus musculu
230	220.5	39.1	117	1	LV0A_HUMAN	P04211 homo sapien
231	219.5	38.9	108	1	KV1Q_HUMAN	P01609 homo sapien
232	219.5	38.9	111	1	KV3E_MOUSE	P01657 mus musculu
233	219.5	38.9	238	2	Q66JS7	Q66js7 mus musculu
234	219	38.8	108	1	KV5T_MOUSE	P01653 mus musculu
235	218.5	38.7	240	2	Q8WUK3	Q8wuk3 homo sapien
236	218.5	38.7	487	2	Q65ZL2	Q65zl2 mus sp. fv/
237	218	38.7	108	1	KV5Q_MOUSE	P01650 mus musculu
238	217.5	38.6	108	2	Q8VIJ0	Q8vij0 mus musculu
239	217.5	38.6	112	1	KV2C_HUMAN	P01616 homo sapien
240	217.5	38.6	116	2	Q96PF6	Q96pf6 homo sapien
241	217.5	38.6	129	2	Q8VDE2	Q8vde2 mus musculu
242	217	38.5	99	2	Q9JL74	Q9jl74 mus musculu
243	216	38.3	113	1	KV2D_HUMAN	P01617 homo sapien
244	215.5	38.2	112	1	KV1U_HUMAN	P01613 homo sapien
245	215	38.1	113	1	KV2F_MOUSE	P01630 mus musculu
246	215	38.1	117	1	KV1I_HUMAN	P01601 homo sapien
247	215	38.1	248	2	Q7SYU1	Q7syu1 xenopus lae
248	214.5	38.0	108	1	KV5U_MOUSE	P04946 mus musculu
249	214.5	38.0	132	1	KV3F_MOUSE	P01658 mus musculu
250	213.5	37.9	116	1	KV3J_HUMAN	P04434 homo sapien

251	212.5	37.7	93	2	Q9UL76	Q9ul76 homo sapien
252	212.5	37.7	108	1	KV5D_MOUSE	P01636 mus musculu
253	212.5	37.7	112	1	KV3G_MOUSE	P01659 mus musculu
254	212.5	37.7	127	2	Q925S9	Q925s9 mus musculu
255	212.5	37.7	129	1	LV2B_MOUSE	P01729 mus musculu
256	211	37.4	109	1	KV01_RAT	P01681 rattus norv
257	211	37.4	112	2	Q6LEM8	Q6lem8 mus musculu
258	210	37.2	108	1	KV5R_MOUSE	P01651 mus musculu
259	210	37.2	115	1	KV5F_MOUSE	P01638 mus musculu
260	210	37.2	133	1	KV2F_HUMAN	P06310 homo sapien
261	209.5	37.1	115	1	KV2A_HUMAN	P01614 homo sapien
262	209	37.1	92	1	KV09_RABIT	P01690 oryctolagus
263	209	37.1	115	1	KV5C_MOUSE	P01635 mus musculu
264	209	37.1	239	2	Q8TCD0	Q8tcd0 homo sapien
265	208.5	37.0	109	2	Q9N0W5	Q9n0w5 oryctolagus
266	208.5	37.0	114	2	Q9UL80	Q9ul80 homo sapien
267	207	36.7	103	2	Q9JL80	Q9jl80 mus musculu
268	206.5	36.6	114	1	KV1A_MOUSE	P01632 mus musculu
269	205	36.3	241	2	Q921A6	Q921a6 mus musculu
270	203	36.0	248	2	Q65ZQ7	Q65zq7 mus sp. b3(
271	202.5	35.9	107	2	Q9JL84	Q9jl84 mus musculu
272	202.5	35.9	108	1	KV1_CANFA	P01618 canis famil
273	200.5	35.5	112	1	KV2D_MOUSE	P01629 mus musculu
274	199	35.3	117	1	KV5H_MOUSE	P01641 mus musculu
275	197	34.9	239	2	Q6P491	Q6p491 homo sapien
276	196	34.8	113	1	KV2B_HUMAN	P01615 homo sapien
277	196	34.8	113	1	KV2E_MOUSE	P03976 mus musculu
278	194.5	34.5	113	1	KV2C_MOUSE	P01628 mus musculu
279	190.5	33.8	132	2	Q8TBD0	Q8tbd0 homo sapien
280	190	33.7	123	2	Q61243	Q61243 mus musculu
281	187	33.2	120	1	KV2B_MOUSE	P01627 mus musculu
282	185.5	32.9	112	1	KV2A_MOUSE	P01626 mus musculu
283	183.5	32.5	104	1	KV17_RABIT	P01698 oryctolagus
284	182	32.3	115	1	KV5I_MOUSE	P01642 mus musculu
285	180.5	32.0	262	2	Q65ZI1	Q65zi1 mus musculu
286	177	31.4	117	1	LV1A_MOUSE	P01723 mus musculu
287	176.5	31.3	94	1	KV11_RABIT	P01692 oryctolagus
288	174.5	30.9	123	1	VPR3_HUMAN	Q9uki3 homo sapien
289	174	30.9	86	2	Q7Z3Y5	Q7z3y5 homo sapien
290	167.5	29.7	142	1	VPR2_MOUSE	P13373 mus musculu
291	166.5	29.5	117	1	LV2A_MOUSE	P01728 mus musculu
292	166	29.4	115	1	KV5A_HUMAN	P06315 homo sapien
293	165.5	29.3	135	2	Q9H5Z4	Q9h5z4 homo sapien
294	164	29.1	145	1	VPRE_HUMAN	P12018 homo sapien
295	162.5	28.8	142	1	VPR1_MOUSE	P13372 mus musculu
296	161	28.5	308	2	Q6PIV3	Q6piv3 homo sapien
297	153	27.1	218	2	Q925S1	Q925s1 mus musculu
298	152.5	27.0	241	2	Q63ZX4	Q63zx4 mus musculu
299	152.5	27.0	310	2	Q8N2T6	Q8n2t6 homo sapien
300	150.5	26.7	313	2	Q6IPU1	Q6ipu1 homo sapien
301	147.5	26.2	260	2	Q6P4G7	Q6p4g7 homo sapien
302	146.5	26.0	147	2	Q6V500	Q6v500 oryctolagus
303	145	25.7	296	2	Q6PJ56	Q6pj56 homo sapien
304	143	25.4	168	2	Q8VDC9	Q8vdc9 mus musculu
305	142	25.2	278	2	Q6IRV4	Q6irv4 homo sapien
306	140	24.8	115	1	HV3F_HUMAN	P01767 homo sapien
307	139.5	24.7	147	2	Q6V4Z9	Q6v4z9 oryctolagus
308	136.5	24.2	132	1	TVA3_MOUSE	P06323 mus musculu
309	136	24.1	142	2	Q924Q2	Q924q2 mus musculu
310	136	24.1	593	2	Q6INM5	Q6inm5 xenopus lae
311	135.5	24.0	273	2	Q6NSA1	Q6nsa1 homo sapien
312	135.5	24.0	613	2	Q8WUK1	Q8wuk1 homo sapien
313	134	23.8	493	2	Q68CN4	Q68cn4 homo sapien
314	133	23.6	142	2	Q924Q1	Q924q1 mus musculu
315	133	23.6	499	2	Q7SZQ3	Q7szq3 brachydanio
316	132.5	23.5	159	2	Q96QS0	Q96qs0 homo sapien
317	132.5	23.5	613	2	Q8VCX7	Q8vcx7 mus musculu
318	132	23.4	321	1	TCB_FLV	P11364 feline leuk
319	132	23.4	470	2	Q7TMK1	Q7tmk1 mus musculu
320	132	23.4	587	2	Q7T0R1	Q7t0r1 xenopus lae
321	131.5	23.3	116	1	HV01_HETFR	P03983 heterodontu
322	131	23.2	119	1	HV3I_HUMAN	P01770 homo sapien
323	131	23.2	466	2	Q6IN78	Q6in78 homo sapien
324	130.5	23.1	140	2	Q65ZL3	Q65zl3 mus sp. tg1
325	130.5	23.1	506	2	Q6N090	Q6n090 homo sapien
326	130	23.0	116	2	Q9UL93	Q9ul93 homo sapien
327	129.5	23.0	139	1	HV07_MOUSE	P01751 mus musculu
328	129.5	23.0	143	2	Q924P9	Q924p9 mus musculu
329	129.5	23.0	145	2	Q924Q7	Q924q7 mus musculu
330	129.5	23.0	152	2	Q6LBN1	Q6lbn1 homo sapien
331	129.5	23.0	463	2	Q99LC4	Q99lc4 mus musculu
332	129.5	23.0	484	2	Q8VEA0	Q8vea0 mus musculu
333	129	22.9	144	2	Q924P5	Q924p5 mus musculu
334	128.5	22.8	116	1	HV05_CARAU	P19181 carassius a
335	128.5	22.8	132	1	TVC3_MOUSE	P06324 mus musculu
336	128.5	22.8	473	2	Q6P055	Q6p055 homo sapien
337	128.5	22.8	585	2	Q6GPX4	Q6gpx4 xenopus lae
338	128	22.7	113	2	Q9UL90	Q9ul90 homo sapien
339	128	22.7	135	1	TVB1_HUMAN	P01733 homo sapien
340	127	22.5	100	2	O77624	O77624 bos taurus
341	126.5	22.4	147	2	Q9Y509	Q9y509 homo sapien
342	126	22.3	125	2	Q6PIL0	Q6pil0 homo sapien
343	126	22.3	480	2	Q8K0Z4	Q8k0z4 mus musculu
344	125.5	22.3	114	2	Q8JGJ3	Q8jgj3 ginglymosto
345	125.5	22.3	121	2	Q99NG4	Q99ng4 mus musculu
346	125.5	22.3	137	1	HV11_MOUSE	P01755 mus musculu
347	125.5	22.3	315	2	Q6IN96	Q6in96 homo sapien
348	125	22.2	98	2	Q6B6Z0	Q6b6z0 oryctolagus
349	125	22.2	114	2	Q8JGF3	Q8jgf3 ginglymosto
350	125	22.2	134	2	Q65ZR6	Q65zr6 mus musculu
351	125	22.2	144	1	HV43_MOUSE	P01819 mus musculu
352	125	22.2	146	2	Q924R8	Q924r8 mus musculu
353	124.5	22.1	109	2	Q9JL75	Q9jl75 mus musculu
354	124.5	22.1	118	2	Q9UL72	Q9ul72 homo sapien
355	124.5	22.1	145	2	Q924R1	Q924r1 mus musculu
356	124	22.0	98	2	Q6B6V3	Q6b6v3 oryctolagus
357	124	22.0	98	2	Q6B6W5	Q6b6w5 oryctolagus
358	124	22.0	99	2	Q6B6S4	Q6b6s4 oryctolagus
359	124	22.0	140	2	Q924P8	Q924p8 mus musculu
360	124	22.0	298	2	Q6INA4	Q6ina4 homo sapien
361	124	22.0	506	2	Q6MZW0	Q6mzw0 homo sapien
362	123.5	21.9	143	2	Q924Q0	Q924q0 mus musculu
363	123.5	21.9	143	2	Q924Q5	Q924q5 mus musculu
364	123.5	21.9	270	2	Q6PIR9	Q6pir9 mus musculu
365	123.5	21.9	340	2	Q6PKA9	Q6pka9 mus musculu
366	123.5	21.9	606	2	Q6GMY2	Q6gmy2 homo sapien
367	123	21.8	50	2	Q6LBV5	Q6lbv5 homo sapien
368	123	21.8	130	2	Q9NP29	Q9np29 homo sapien
369	123	21.8	481	2	Q91WT1	Q91wt1 mus musculu
370	122.5	21.7	116	2	Q9UL89	Q9ul89 homo sapien
371	122.5	21.7	137	2	Q924R6	Q924r6 mus musculu
372	122	21.6	102	2	Q6B6S8	Q6b6s8 oryctolagus
373	122	21.6	123	2	Q8VIJ1	Q8vij1 mus musculu
374	122	21.6	136	1	TVB4_MOUSE	P04212 mus musculu
375	122	21.6	473	2	Q9D8L4	Q9d8l4 mus musculu
376	122	21.6	614	2	Q7TMT6	Q7tmt6 mus musculu
377	121.5	21.5	119	2	Q8JGH4	Q8jgh4 ginglymosto
378	121.5	21.5	130	1	TVA1_MOUSE	P01738 mus musculu
379	121.5	21.5	143	2	Q91V67	Q91v67 mus musculu
380	121.5	21.5	143	2	Q924R7	Q924r7 mus musculu
381	121.5	21.5	278	2	Q6IPR8	Q6ipr8 homo sapien
382	121	21.5	114	2	Q8JGF5	Q8jgf5 ginglymosto
383	121	21.5	115	2	Q8JGF4	Q8jgf4 ginglymosto
384	121	21.5	117	1	HV06_MOUSE	P01750 mus musculu
385	121	21.5	117	1	HV2B_RABIT	P01828 oryctolagus
386	121	21.5	146	2	Q924Q3	Q924q3 mus musculu
387	121	21.5	146	2	Q924Q8	Q924q8 mus musculu
388	121	21.5	478	2	Q6PI81	Q6pi81 homo sapien
389	121	21.5	597	2	Q9BQB8	Q9bqb8 homo sapien
390	120.5	21.4	109	2	Q8AXF7	Q8axf7 ginglymosto
391	120.5	21.4	118	2	Q9Z1C4	Q9z1c4 mus musculu
392	120.5	21.4	333	2	Q8UV75	Q8uv75 brachydanio
393	120.5	21.4	488	2	Q8K0F2	Q8k0f2 mus musculu
394	120	21.3	99	2	Q6B6S7	Q6b6s7 oryctolagus
395	120	21.3	111	2	Q9D9B8	Q9d9b8 mus musculu
396	120	21.3	140	2	Q924R2	Q924r2 mus musculu

397	119.5	21.2	118	2	Q9UL91	Q9ul91 homo sapien
398	119.5	21.2	136	2	Q7TPE3	Q7tpe3 mus musculu
399	119.5	21.2	141	2	Q924Q4	Q924q4 mus musculu
400	119.5	21.2	145	2	Q924Q6	Q924q6 mus musculu
401	119	21.1	105	2	Q8WVJ6	Q8wvj6 homo sapien
402	119	21.1	112	2	Q8AXH5	Q8axh5 ginglymosto
403	119	21.1	273	2	Q6PIZ8	Q6piz8 homo sapien
404	119	21.1	497	2	Q8WY24	Q8wy24 homo sapien
405	118.5	21.0	114	1	HV01_CANFA	P01784 canis famil
406	118.5	21.0	114	2	Q9JL81	Q9jl81 mus musculu
407	118.5	21.0	120	1	HV50_MOUSE	P06329 mus musculu
408	118.5	21.0	121	2	Q8JGH5	Q8jgh5 ginglymosto
409	118.5	21.0	122	1	HV3G_HUMAN	P01768 homo sapien
410	118.5	21.0	308	2	Q8UUG3	Q8uug3 ictalurus p
411	118.5	21.0	478	2	Q7Z379	Q7z379 homo sapien
412	118.5	21.0	544	2	Q6PJ95	Q6pj95 homo sapien
413	118	20.9	109	2	Q9JL85	Q9jl85 mus musculu
414	118	20.9	118	2	Q8JGK1	Q8jgk1 ginglymosto
415	118	20.9	119	2	Q8JGJ1	Q8jgj1 ginglymosto
416	118	20.9	120	2	Q920E8	Q920e8 mus musculu
417	118	20.9	480	2	Q6PJF1	Q6pjf1 homo sapien
418	118	20.9	584	2	Q6INK3	Q6ink3 xenopus lae
419	117.5	20.8	125	2	Q8JGH7	Q8jgh7 ginglymosto
420	117.5	20.8	143	2	Q924R0	Q924r0 mus musculu
421	117.5	20.8	145	2	Q924Q9	Q924q9 mus musculu
422	117.5	20.8	465	2	Q6PJB2	Q6pjb2 mus musculu
423	117	20.7	117	1	HV12_MOUSE	P01756 mus musculu
424	117	20.7	117	1	HV13_MOUSE	P01757 mus musculu
425	117	20.7	119	1	HV3L_HUMAN	P01773 homo sapien
426	117	20.7	225	2	Q6PAF5	Q6paf5 xenopus lae
427	116.5	20.7	143	2	Q91VA2	Q91va2 mus musculu
428	116.5	20.7	145	2	Q924P7	Q924p7 mus musculu
429	116.5	20.7	356	2	Q8AXL5	Q8axl5 oncorhynchu
430	116.5	20.7	475	2	Q6N095	Q6n095 homo sapien
431	116.5	20.7	588	2	Q6IR66	Q6ir66 xenopus lae
432	116.5	20.7	614	2	Q6DDQ7	Q6ddq7 xenopus lae
433	116	20.6	98	2	Q6B6X3	Q6b6x3 oryctolagus
434	116	20.6	117	1	HV17_MOUSE	P01786 mus musculu
435	116	20.6	117	1	HV42_MOUSE	P01812 mus musculu
436	116	20.6	117	2	Q9QXE9	Q9qxe9 mus musculu
437	116	20.6	135	1	TVC1_MOUSE	P01740 mus musculu
438	116	20.6	136	1	HV15_MOUSE	P01759 mus musculu
439	116	20.6	150	2	Q9Y298	Q9y298 homo sapien
440	116	20.6	479	2	Q99M22	Q99m22 mus musculu
441	116	20.6	480	2	Q6P089	Q6p089 homo sapien
442	116	20.6	595	2	Q8WUX4	Q8wux4 homo sapien
443	116	20.6	597	2	Q6GMX5	Q6gmx5 homo sapien
444	116	20.6	597	2	Q9BU10	Q9bu10 homo sapien
445	116	20.6	625	2	Q96AA6	Q96aa6 homo sapien
446	115.5	20.5	110	2	Q9JL77	Q9jl77 mus musculu
447	115.5	20.5	139	2	Q924R5	Q924r5 mus musculu
448	115.5	20.5	145	2	Q924R4	Q924r4 mus musculu
449	115.5	20.5	303	2	Q7T114	Q7t114 brachydanio
450	115.5	20.5	336	2	Q8UV73	Q8uv73 brachydanio
451	115.5	20.5	336	2	Q90Z89	Q90z89 brachydanio
452	115.5	20.5	337	2	Q8UV29	Q8uv29 brachydanio
453	115.5	20.5	337	2	Q90Z87	Q90z87 brachydanio
454	115.5	20.5	337	2	Q90Z88	Q90z88 brachydanio
455	115.5	20.5	482	2	Q8K172	Q8k172 mus musculu
456	115.5	20.5	518	2	Q6N030	Q6n030 homo sapien
457	115.5	20.5	576	2	Q6P4I8	Q6p4i8 homo sapien
458	115	20.4	117	1	HV05_MOUSE	P01749 mus musculu
459	115	20.4	117	1	HV1B_HUMAN	P01743 homo sapien
460	115	20.4	117	2	Q9QXF0	Q9qxf0 mus musculu
461	115	20.4	237	2	Q6W8W8	Q6w8w8 cavia porce
462	115	20.4	484	2	Q99LA6	Q99la6 mus musculu
463	115	20.4	493	2	Q6GMX2	Q6gmx2 homo sapien
464	114.5	20.3	116	2	Q683Y7	Q683y7 mus musculu
465	114.5	20.3	121	2	Q8JGH6	Q8jgh6 ginglymosto
466	114.5	20.3	122	1	HV21_MOUSE	P01790 mus musculu
467	114.5	20.3	122	1	HV3H_HUMAN	P01769 homo sapien
468	114.5	20.3	123	2	Q8JGI6	Q8jgi6 ginglymosto
469	114.5	20.3	124	2	Q9UL92	Q9ul92 homo sapien
470	114.5	20.3	131	1	TVA1_HUMAN	P04436 homo sapien
471	114.5	20.3	134	2	Q9YHG7	Q9yhg7 ginglymosto
472	114.5	20.3	139	1	TVA2_HUMAN	P04437 homo sapien
473	114.5	20.3	145	2	Q924R3	Q924r3 mus musculu
474	114	20.2	116	1	HV3R_HUMAN	P01779 homo sapien
475	114	20.2	117	2	Q9Z1C6	Q9z1c6 mus musculu
476	114	20.2	122	2	Q8JGI1	Q8jgi1 ginglymosto
477	114	20.2	131	2	Q9UL88	Q9ul88 homo sapien
478	114	20.2	133	1	TVB2_HUMAN	P04435 homo sapien
479	114	20.2	145	2	Q9YHQ9	Q9yhq9 ginglymosto
480	114	20.2	481	2	Q91WT3	Q91wt3 mus musculu
481	113.5	20.1	142	2	Q9YHM3	Q9yhm3 ginglymosto
482	113.5	20.1	143	2	Q924P6	Q924p6 mus musculu
483	113.5	20.1	481	2	Q8VCV5	Q8vcv5 mus musculu
484	113.5	20.1	482	2	Q91X92	Q91x92 mus musculu
485	113.5	20.1	498	2	Q6N041	Q6n041 homo sapien
486	113.5	20.1	684	2	Q90544	Q90544 ginglymosto
487	113	20.0	105	2	Q9YHT0	Q9yht0 ginglymosto
488	113	20.0	110	2	Q8JGJ9	Q8jgj9 ginglymosto
489	113	20.0	119	2	Q9GYZ2	Q9gyz2 schistosoma
490	113	20.0	122	2	Q8JGJ2	Q8jgj2 ginglymosto
491	113	20.0	135	1	TVC4_MOUSE	P06325 mus musculu
492	113	20.0	143	2	Q9YHQ7	Q9yhq7 ginglymosto
493	113	20.0	470	2	Q6PJA4	Q6pja4 homo sapien
494	113	20.0	480	2	Q91XE1	Q91xe1 mus musculu
495	112.5	19.9	114	1	HV3B_HUMAN	P01763 homo sapien
496	112.5	19.9	115	1	HV44_MOUSE	P01820 mus musculu
497	112.5	19.9	117	1	HV3O_HUMAN	P01776 homo sapien
498	112.5	19.9	119	1	HV38_MOUSE	P01808 mus musculu
499	112.5	19.9	119	1	HV3P_HUMAN	P01777 homo sapien
500	112.5	19.9	139	2	Q86SX2	Q86sx2 homo sapien
501	112.5	19.9	252	2	Q6NSA0	Q6nsa0 homo sapien
502	112.5	19.9	311	2	Q6GMR4	Q6gmr4 homo sapien
503	112.5	19.9	475	2	Q6GMW7	Q6gmw7 homo sapien
504	112.5	19.9	573	2	Q8WU38	Q8wu38 homo sapien
505	112	19.9	98	2	Q6B712	Q6b712 oryctolagus
506	112	19.9	100	2	Q6B6Z2	Q6b6z2 oryctolagus
507	112	19.9	101	2	Q6B6V1	Q6b6v1 oryctolagus
508	112	19.9	119	2	Q9UL73	Q9ul73 homo sapien
509	112	19.9	119	2	Q920E7	Q920e7 mus musculu
510	112	19.9	120	2	Q6NSA4	Q6nsa4 homo sapien
511	112	19.9	121	1	HV3J_HUMAN	P01771 homo sapien
512	112	19.9	121	2	Q8CGS2	Q8cgs2 mus musculu
513	112	19.9	121	2	Q8JFK8	Q8jfk8 ginglymosto
514	112	19.9	136	2	Q9YHP4	Q9yhp4 ginglymosto
515	112	19.9	140	2	Q9YHF9	Q9yhf9 ginglymosto
516	112	19.9	329	2	Q9IAY6	Q9iay6 sphoeroides
517	112	19.9	339	2	Q9IAY8	Q9iay8 sphoeroides
518	112	19.9	476	2	Q6GMX1	Q6gmx1 homo sapien
519	111.5	19.8	122	1	HV3A_HUMAN	P01762 homo sapien
520	111.5	19.8	130	1	TVB8_MOUSE	P06321 mus musculu
521	111.5	19.8	274	2	Q6GMW8	Q6gmw8 homo sapien
522	111	19.7	108	2	Q8AXG0	Q8axg0 ginglymosto
523	111	19.7	117	1	HV02_CANFA	P01785 canis famil
524	111	19.7	117	1	HV41_MOUSE	P01811 mus musculu
525	111	19.7	123	1	HV24_MOUSE	P01793 mus musculu
526	111	19.7	500	2	Q6N091	Q6n091 homo sapien
527	110.5	19.6	98	2	Q6B709	Q6b709 oryctolagus
528	110.5	19.6	111	2	Q8JFI6	Q8jfi6 ginglymosto
529	110.5	19.6	124	2	Q9N0W4	Q9n0w4 oryctolagus
530	110.5	19.6	124	2	Q9N0W6	Q9n0w6 oryctolagus
531	110.5	19.6	125	2	Q8JGI2	Q8jgi2 ginglymosto
532	110.5	19.6	147	1	HV1C_HUMAN	P01744 homo sapien
533	110.5	19.6	280	2	Q8UWK3	Q8uwk3 ictalurus p
534	110.5	19.6	281	2	Q6PI94	Q6pi94 homo sapien
535	110.5	19.6	303	2	Q7TND8	Q7tnd8 mus musculu
536	110.5	19.6	323	2	Q6PI92	Q6pi92 homo sapien
537	110.5	19.6	342	2	Q9IB00	Q9ib00 sphoeroides
538	110.5	19.6	412	2	Q8HY14	Q8hy14 oryctolagus
539	110.5	19.6	465	2	Q6GMX6	Q6gmx6 homo sapien
540	110.5	19.6	475	2	Q6MZQ6	Q6mzq6 homo sapien
541	110	19.5	99	2	Q8JGI9	Q8jgi9 ginglymosto
542	110	19.5	108	2	Q8JJ24	Q8jj24 orectolobus

543	110	19.5	117	1	HV04_MOUSE	P01748	mus musculu
544	110	19.5	117	1	HV49_MOUSE	P06328	mus musculu
545	110	19.5	121	2	Q9UL71	Q9ul71	homo sapien
546	110	19.5	121	2	Q9UL96	Q9ul96	homo sapien
547	110	19.5	133	2	Q8UV48	Q8uv48	brachydanio
548	110	19.5	136	2	Q9YHP2	Q9yhp2	ginglymosto
549	110	19.5	144	1	HV26_MOUSE	P01795	mus musculu
550	110	19.5	196	2	Q65ZL8	Q65zl8	mus musculu
551	110	19.5	230	2	Q8UV76	Q8uv76	brachydanio
552	110	19.5	339	2	Q9IAZ7	Q9iaz7	sphoeroides
553	109.5	19.4	116	1	HV1A_RABIT	P01826	oryctolagus
554	109.5	19.4	118	1	HV51_MOUSE	P06330	mus musculu
555	109.5	19.4	122	1	HV20_MOUSE	P01789	mus musculu
556	109.5	19.4	136	2	Q6LBQ5	Q6lbq5	mus musculu
557	109	19.3	104	2	Q8AXG1	Q8axg1	ginglymosto
558	109	19.3	117	1	HV55_MOUSE	P18526	mus musculu
559	109	19.3	118	2	Q8JFE1	Q8jfe1	ginglymosto
560	109	19.3	122	1	TVB5_MOUSE	P04213	mus musculu
561	109	19.3	136	1	HV01_XENLA	P20956	xenopus lae
562	109	19.3	137	2	Q9YHQ0	Q9yhq0	ginglymosto
563	109	19.3	322	2	Q9PTR8	Q9ptr8	sphoeroides
564	109	19.3	339	2	Q9IAZ1	Q9iaz1	sphoeroides
565	108.5	19.2	100	2	Q6B752	Q6b752	oryctolagus
566	108.5	19.2	120	1	HV3U_HUMAN	P01782	homo sapien
567	108.5	19.2	128	2	Q8JGF6	Q8jgf6	ginglymosto
568	108.5	19.2	132	1	TVA2_MOUSE	P01739	mus musculu
569	108.5	19.2	134	1	TVB7_MOUSE	P06320	mus musculu
570	108.5	19.2	206	2	Q8UWG3	Q8uwg3	ictalurus p
571	108.5	19.2	223	2	Q8UWK8	Q8uwk8	ictalurus p
572	108.5	19.2	500	2	Q9BRV0	Q9brv0	homo sapien
573	108	19.1	95	2	Q9ULB6	Q9ulb6	homo sapien
574	108	19.1	96	2	Q6B6Z4	Q6b6z4	oryctolagus
575	108	19.1	98	2	Q6B6Z9	Q6b6z9	oryctolagus
576	108	19.1	98	2	Q6B706	Q6b706	oryctolagus
577	108	19.1	99	2	Q6B6V0	Q6b6v0	oryctolagus
578	108	19.1	99	2	Q6B717	Q6b717	oryctolagus
579	108	19.1	99	2	Q6B766	Q6b766	oryctolagus
580	108	19.1	101	2	Q6B6S9	Q6b6s9	oryctolagus
581	108	19.1	101	2	Q6B6V2	Q6b6v2	oryctolagus
582	108	19.1	101	2	Q6B775	Q6b775	oryctolagus
583	108	19.1	117	1	HV58_MOUSE	P18529	mus musculu
584	108	19.1	119	1	HV3N_HUMAN	P01775	homo sapien
585	108	19.1	125	1	HV2D_HUMAN	P01817	homo sapien
586	108	19.1	125	2	Q9UL95	Q9ul95	homo sapien
587	108	19.1	129	2	Q9YHF1	Q9yhf1	ginglymosto
588	108	19.1	130	2	Q8IZD7	Q8izd7	homo sapien
589	108	19.1	130	2	Q9YHH5	Q9yhh5	ginglymosto
590	108	19.1	138	1	HV48_MOUSE	P03980	mus musculu
591	108	19.1	139	2	Q9YHF3	Q9yhf3	ginglymosto
592	108	19.1	142	2	Q9YHF2	Q9yhf2	ginglymosto
593	108	19.1	142	2	Q9YHQ2	Q9yhq2	ginglymosto
594	108	19.1	326	2	Q9IAZ8	Q9iaz8	sphoeroides
595	108	19.1	340	2	Q9IAZ0	Q9iaz0	sphoeroides
596	108	19.1	466	2	Q6N096	Q6n096	homo sapien
597	108	19.1	472	2	Q6N089	Q6n089	homo sapien
598	108	19.1	480	2	Q6N094	Q6n094	homo sapien
599	108	19.1	521	2	Q8N4Y9	Q8n4y9	homo sapien
600	107.5	19.1	105	2	Q6B715	Q6b715	oryctolagus
601	107.5	19.1	110	2	Q8JGG6	Q8jgg6	ginglymosto
602	107.5	19.1	113	2	Q8AXH1	Q8axh1	ginglymosto
603	107.5	19.1	116	2	Q8JGK0	Q8jgk0	ginglymosto
604	107.5	19.1	119	1	HV37_MOUSE	P01807	mus musculu
605	107.5	19.1	119	1	HV3M_HUMAN	P01774	homo sapien
606	107.5	19.1	148	2	Q9YHN9	Q9yhn9	ginglymosto
607	107.5	19.1	150	2	O95973	O95973	homo sapien
608	107.5	19.1	256	2	Q68ES0	Q68es0	xenopus tro
609	107.5	19.1	315	2	Q6NS87	Q6ns87	homo sapien
610	107.5	19.1	482	2	Q7Z351	Q7z351	homo sapien
611	107.5	19.1	488	2	Q91WR1	Q91wr1	mus musculu
612	107.5	19.1	620	2	Q96EY0	Q96ey0	homo sapien
613	107	19.0	102	2	Q6B6U5	Q6b6u5	oryctolagus
614	107	19.0	105	2	Q8JFL0	Q8jfl0	ginglymosto
615	107	19.0	117	1	HV53_MOUSE	P18524	mus musculu
616	107	19.0	119	2	Q9UL94	Q9ul94	homo sapien
617	107	19.0	121	1	HV2E_HUMAN	P01818	homo sapien
618	107	19.0	123	1	HV18_MOUSE	P01787	mus musculu
619	107	19.0	123	1	HV22_MOUSE	P01791	mus musculu
620	107	19.0	126	2	Q8JG99	Q8jg99	ginglymosto
621	107	19.0	133	2	Q9YHH4	Q9yhh4	ginglymosto
622	107	19.0	136	2	Q9YHR9	Q9yhr9	ginglymosto
623	107	19.0	152	2	Q9YHH0	Q9yhh0	ginglymosto
624	107	19.0	335	2	Q8UUG6	Q8uug6	brachydanio
625	107	19.0	335	2	Q90Z95	Q90z95	brachydanio
626	107	19.0	597	2	Q96BB9	Q96bb9	homo sapien
627	106.5	18.9	97	2	Q6LBS8	Q6lbs8	raja erinac
628	106.5	18.9	114	1	HV2A_RABIT	P01827	oryctolagus
629	106.5	18.9	121	2	Q8JFI3	Q8jfi3	ginglymosto
630	106.5	18.9	146	1	HV2I_HUMAN	P06331	homo sapien
631	106.5	18.9	267	2	Q90529	Q90529	ginglymosto
632	106	18.8	116	1	HV60_MOUSE	P18531	mus musculu
633	106	18.8	117	1	HV1G_HUMAN	P23083	homo sapien
634	106	18.8	117	1	HV3C_HUMAN	P01764	homo sapien
635	106	18.8	119	2	Q8JFH9	Q8jfh9	ginglymosto
636	106	18.8	120	2	Q8JFH8	Q8jfh8	ginglymosto
637	106	18.8	120	2	Q8JFI0	Q8jfi0	ginglymosto
638	106	18.8	121	2	Q8JFI1	Q8jfi1	ginglymosto
639	106	18.8	123	1	HV23_MOUSE	P01792	mus musculu
640	106	18.8	124	2	Q8JGI0	Q8jgi0	ginglymosto
641	106	18.8	340	2	Q9IAZ6	Q9iaz6	sphoeroides
642	106	18.8	417	2	Q6N093	Q6n093	homo sapien
643	106	18.8	464	2	Q6PF95	Q6pf95	mus musculu
644	106	18.8	499	2	Q8N5K4	Q8n5k4	homo sapien
645	105.5	18.7	99	2	Q8JGJ4	Q8jgj4	ginglymosto
646	105.5	18.7	100	2	Q6B716	Q6b716	oryctolagus
647	105.5	18.7	110	2	Q8JGG4	Q8jgg4	ginglymosto
648	105.5	18.7	116	2	Q683Y8	Q683y8	mus musculu
649	105.5	18.7	117	1	HV1A_HUMAN	P01742	homo sapien
650	105.5	18.7	119	1	HV40_MOUSE	P01810	mus musculu
651	105.5	18.7	120	1	HV1H_HUMAN	P80421	homo sapien
652	105.5	18.7	122	2	Q9UL84	Q9ul84	homo sapien
653	105.5	18.7	135	2	Q9YHI6	Q9yhi6	ginglymosto
654	105.5	18.7	136	1	HV2C_RABIT	P01829	oryctolagus
655	105.5	18.7	138	2	Q9YHH9	Q9yhh9	ginglymosto
656	105.5	18.7	144	2	Q9YHK3	Q9yhk3	ginglymosto
657	105.5	18.7	313	2	Q90Z92	Q90z92	brachydanio
658	105	18.6	98	2	Q6B6Y7	Q6b6y7	oryctolagus
659	105	18.6	115	1	HV3D_HUMAN	P01765	homo sapien
660	105	18.6	117	1	HV02_CAICR	P03981	caiman croc
661	105	18.6	129	2	Q9YHF6	Q9yhf6	ginglymosto
662	105	18.6	137	1	HV46_MOUSE	P01822	mus musculu
663	105	18.6	143	2	Q9YHI3	Q9yhi3	ginglymosto
664	105	18.6	144	2	Q9YHK9	Q9yhk9	ginglymosto
665	105	18.6	147	2	Q925S3	Q925s3	mus musculu
666	105	18.6	223	2	Q8UV47	Q8uv47	brachydanio
667	105	18.6	223	2	Q8UVA3	Q8uva3	brachydanio
668	105	18.6	223	2	Q8AW68	Q8aw68	brachydanio
669	105	18.6	230	2	Q8UV30	Q8uv30	brachydanio
670	105	18.6	230	2	Q90Z86	Q90z86	brachydanio
671	105	18.6	326	2	Q9IAZ5	Q9iaz5	sphoeroides
672	105	18.6	519	2	Q6N092	Q6n092	homo sapien
673	104.5	18.5	97	2	Q6B735	Q6b735	oryctolagus
674	104.5	18.5	97	2	Q6B757	Q6b757	oryctolagus
675	104.5	18.5	100	2	Q6B6T9	Q6b6t9	oryctolagus
676	104.5	18.5	103	2	Q8JFH2	Q8jfh2	ginglymosto
677	104.5	18.5	109	2	Q8JFN0	Q8jfn0	ginglymosto
678	104.5	18.5	114	2	Q8JGG5	Q8jgg5	ginglymosto
679	104.5	18.5	136	2	Q9YHF4	Q9yhf4	ginglymosto
680	104.5	18.5	280	2	Q8UWL2	Q8uwl2	ictalurus p
681	104.5	18.5	313	2	Q90Z90	Q90z90	brachydanio
682	104	18.4	94	2	Q9YHJ2	Q9yhj2	ginglymosto
683	104	18.4	102	2	Q6B6U6	Q6b6u6	oryctolagus
684	104	18.4	117	1	HV01_CAICR	P01813	caiman croc
685	104	18.4	120	2	Q8JFH7	Q8jfh7	ginglymosto
686	104	18.4	120	2	Q8JGA7	Q8jga7	ginglymosto
687	104	18.4	121	1	HV01_MOUSE	P01745	mus musculu
688	104	18.4	123	1	HV19_MOUSE	P01788	mus musculu

689	104	18.4	124	2	Q8JGH9	Q8jgh9	ginglymosto
690	104	18.4	230	2	Q801W9	Q801w9	brachydanio
691	104	18.4	472	2	Q6PJA7	Q6pja7	mus musculu
692	104	18.4	493	2	Q8NCL6	Q8ncl6	homo sapien
693	103.5	18.4	97	2	Q6B727	Q6b727	oryctolagus
694	103.5	18.4	110	2	Q8JGI7	Q8jgi7	ginglymosto
695	103.5	18.4	116	1	HV3T_HUMAN	P01781	homo sapien
696	103.5	18.4	138	2	Q9YHF7	Q9yhf7	ginglymosto
697	103.5	18.4	235	2	Q96QR6	Q96qr6	homo sapien
698	103.5	18.4	313	2	Q8UV33	Q8uv33	brachydanio
699	103.5	18.4	313	2	Q90Z91	Q90z91	brachydanio
700	103.5	18.4	473	2	Q91Z05	Q91z05	mus musculu
701	103	18.3	100	2	Q6B6Z8	Q6b6z8	oryctolagus
702	103	18.3	101	2	Q6B6Z1	Q6b6z1	oryctolagus
703	103	18.3	101	2	Q9YHJ6	Q9yhj6	ginglymosto
704	103	18.3	105	2	Q6B6X6	Q6b6x6	oryctolagus
705	103	18.3	106	2	Q6B6R9	Q6b6r9	oryctolagus
706	103	18.3	106	2	Q6B6T3	Q6b6t3	oryctolagus
707	103	18.3	118	1	HV39_MOUSE	P01809	mus musculu
708	103	18.3	120	2	Q8JFK2	Q8jfk2	ginglymosto
709	103	18.3	129	2	Q9YHF5	Q9yhf5	ginglymosto
710	103	18.3	138	2	Q9W6Z6	Q9w6z6	ginglymosto
711	103	18.3	235	2	Q6R133	Q6r133	gallus gall
712	103	18.3	273	2	Q6NS93	Q6ns93	homo sapien
713	102.5	18.2	98	2	Q8JGJ8	Q8jgj8	ginglymosto
714	102.5	18.2	103	2	Q6B713	Q6b713	oryctolagus
715	102.5	18.2	117	1	HV62_MOUSE	P18533	mus musculu
716	102.5	18.2	136	1	HV16_MOUSE	P01783	mus musculu
717	102.5	18.2	136	2	Q9YHG9	Q9yhg9	ginglymosto
718	102.5	18.2	198	1	CD8A_PONPY	P30433	pongo pygma
719	102.5	18.2	198	2	Q13970	Q13970	homo sapien
720	102.5	18.2	232	2	Q8UV53	Q8uv53	brachydanio
721	102.5	18.2	235	1	CD8A_HUMAN	P01732	homo sapien
722	102.5	18.2	235	2	Q8TAW8	Q8taw8	homo sapien
723	102.5	18.2	465	2	Q6P6C4	Q6p6c4	homo sapien
724	102.5	18.2	487	2	Q6ZVX0	Q6zvx0	homo sapien
725	102.5	18.2	487	2	Q99KA4	Q99ka4	mus musculu
726	102	18.1	88	2	Q8JGJ0	Q8jgj0	ginglymosto
727	102	18.1	98	2	Q8JGL3	Q8jgl3	ginglymosto
728	102	18.1	99	2	Q8JGK2	Q8jgk2	ginglymosto
729	102	18.1	114	2	Q8AXF9	Q8axf9	ginglymosto
730	102	18.1	116	1	HV36_MOUSE	P01806	mus musculu
731	102	18.1	117	1	HV09_MOUSE	P01753	mus musculu
732	102	18.1	117	1	HV10_MOUSE	P01754	mus musculu
733	102	18.1	117	1	HV14_MOUSE	P01758	mus musculu
734	102	18.1	117	1	HV54_MOUSE	P18525	mus musculu
735	102	18.1	123	1	HV25_MOUSE	P01794	mus musculu
736	102	18.1	123	2	Q8JGI8	Q8jgi8	ginglymosto
737	102	18.1	124	2	Q8JGA8	Q8jga8	ginglymosto
738	102	18.1	130	2	Q9W6Z5	Q9w6z5	ginglymosto
739	102	18.1	135	2	Q9YHH8	Q9yhh8	ginglymosto
740	102	18.1	136	2	Q9YHP3	Q9yhp3	ginglymosto
741	102	18.1	137	2	Q9YHS0	Q9yhs0	ginglymosto
742	102	18.1	291	2	Q8UV68	Q8uv68	brachydanio
743	102	18.1	313	2	Q9U964	Q9u964	geodia cydo
744	102	18.1	339	2	Q9IAZ2	Q9iaz2	sphoeroides
745	102	18.1	383	2	O18431	O18431	geodia cydo
746	102	18.1	489	2	Q8VCX4	Q8vcx4	mus musculu
747	102	18.1	505	2	Q9U965	Q9u965	geodia cydo
748	101.5	18.0	99	2	Q6B6S5	Q6b6s5	oryctolagus
749	101.5	18.0	103	2	Q6B6U3	Q6b6u3	oryctolagus
750	101.5	18.0	103	2	Q6B708	Q6b708	oryctolagus
751	101.5	18.0	105	2	Q6B6X1	Q6b6x1	oryctolagus
752	101.5	18.0	110	2	Q9JL83	Q9jl83	mus musculu
753	101.5	18.0	113	2	Q8AXI4	Q8axi4	ginglymosto
754	101.5	18.0	115	1	HV3S_HUMAN	P01780	homo sapien
755	101.5	18.0	123	2	Q8JG97	Q8jg97	ginglymosto
756	101.5	18.0	124	1	HV1D_HUMAN	P01760	homo sapien
757	101.5	18.0	164	2	Q90XW7	Q90xw7	orectolobus
758	101	17.9	98	1	HV57_MOUSE	P18528	mus musculu
759	101	17.9	104	2	Q6B6U8	Q6b6u8	oryctolagus
760	101	17.9	104	2	Q6B710	Q6b710	oryctolagus
761	101	17.9	106	2	Q6B6V7	Q6b6v7	oryctolagus
762	101	17.9	106	2	Q6B6Z5	Q6b6z5	oryctolagus
763	101	17.9	112	2	Q9HCC1	Q9hcc1	homo sapien
764	101	17.9	113	1	HV30_MOUSE	P01799	mus musculu
765	101	17.9	114	2	Q8AXG3	Q8axg3	ginglymosto
766	101	17.9	123	2	Q8JG91	Q8jg91	ginglymosto
767	101	17.9	142	1	HV01_RAT	P01805	rattus norv
768	101	17.9	146	2	Q9YHI2	Q9yhi2	ginglymosto
769	101	17.9	152	2	Q9YHI1	Q9yhi1	ginglymosto
770	101	17.9	326	2	Q9IAZ3	Q9iaz3	sphoeroides
771	101	17.9	464	2	Q6MZU6	Q6mzu6	homo sapien
772	101	17.9	474	2	Q8R3H6	Q8r3h6	mus musculu
773	101	17.9	485	2	Q6PDB8	Q6pdb8	mus musculu
774	101	17.9	513	1	SHS1_MOUSE	P97797	m protein-t
775	100.5	17.8	99	2	Q6B6Z6	Q6b6z6	oryctolagus
776	100.5	17.8	113	2	Q8AXI5	Q8axi5	ginglymosto
777	100.5	17.8	116	2	Q7Z3Y6	Q7z3y6	homo sapien
778	100.5	17.8	119	2	Q8JFL6	Q8jfl6	ginglymosto
779	100.5	17.8	120	1	HV3E_HUMAN	P01766	homo sapien
780	100.5	17.8	121	2	Q8JG98	Q8jg98	ginglymosto
781	100.5	17.8	131	2	Q9YHN3	Q9yhn3	ginglymosto
782	100.5	17.8	136	1	TVC_HUMAN	P03979	homo sapien
783	100.5	17.8	167	2	Q90XW8	Q90xw8	orectolobus
784	100.5	17.8	185	2	Q8UWK4	Q8uwk4	ictalurus p
785	100.5	17.8	206	2	Q8UWK5	Q8uwk5	ictalurus p
786	100.5	17.8	365	2	Q8AXL6	Q8axl6	oncorhynchu
787	100.5	17.8	463	2	Q66J72	Q66j72	xenopus lae
788	100	17.7	108	2	Q8JJ25	Q8jj25	orectolobus
789	100	17.7	114	1	HV00_MOUSE	P01741	mus musculu
790	100	17.7	114	2	Q8AXG4	Q8axg4	ginglymosto
791	100	17.7	114	2	Q8AXG8	Q8axg8	ginglymosto
792	100	17.7	117	1	HV03_CARAU	P19180	carassius a
793	100	17.7	122	2	Q99603	Q99603	homo sapien
794	100	17.7	135	1	TVA3_HUMAN	P01737	homo sapien
795	100	17.7	135	1	TVB1_MOUSE	P01734	mus musculu
796	100	17.7	140	1	HV02_MOUSE	P01746	mus musculu
797	100	17.7	140	2	Q9YHK7	Q9yhk7	ginglymosto
798	100	17.7	235	2	Q6QR62	Q6qr62	gallus gall
799	100	17.7	479	2	Q91WP5	Q91wp5	mus musculu
800	100	17.7	486	2	Q91Z07	Q91z07	mus musculu
801	99.5	17.6	97	2	Q6B726	Q6b726	oryctolagus
802	99.5	17.6	97	2	Q6B734	Q6b734	oryctolagus
803	99.5	17.6	99	2	Q6B722	Q6b722	oryctolagus
804	99.5	17.6	99	2	Q6B723	Q6b723	oryctolagus
805	99.5	17.6	100	2	Q6B751	Q6b751	oryctolagus
806	99.5	17.6	109	2	Q8AXG2	Q8axg2	ginglymosto
807	99.5	17.6	111	1	HV35_MOUSE	P01804	mus musculu
808	99.5	17.6	113	2	Q8AXG7	Q8axg7	ginglymosto
809	99.5	17.6	126	1	HV3K_HUMAN	P01772	homo sapien
810	99.5	17.6	139	2	Q9YHN8	Q9yhn8	ginglymosto
811	99.5	17.6	232	2	Q8UV82	Q8uv82	brachydanio
812	99.5	17.6	234	2	Q8UV62	Q8uv62	brachydanio
813	99	17.6	101	2	Q6B6T5	Q6b6t5	oryctolagus
814	99	17.6	113	1	HV47_MOUSE	P01823	mus musculu
815	99	17.6	114	2	Q8AXI2	Q8axi2	ginglymosto
816	99	17.6	120	1	HV03_MOUSE	P01747	mus musculu
817	99	17.6	133	1	TVB2_MOUSE	P01735	mus musculu
818	99	17.6	140	2	Q9YHP0	Q9yhp0	ginglymosto
819	99	17.6	333	2	Q9IB04	Q9ib04	sphoeroides
820	99	17.6	337	2	Q9IAZ4	Q9iaz4	sphoeroides
821	99	17.6	337	2	Q9IB02	Q9ib02	sphoeroides
822	98.5	17.5	97	2	Q6B6U7	Q6b6u7	oryctolagus
823	98.5	17.5	99	2	Q8JGL2	Q8jgl2	ginglymosto
824	98.5	17.5	100	2	Q6B720	Q6b720	oryctolagus
825	98.5	17.5	100	2	Q6B741	Q6b741	oryctolagus
826	98.5	17.5	118	1	HV3V_HUMAN	P80419	homo sapien
827	98.5	17.5	118	2	Q8JGB4	Q8jg84	ginglymosto
828	98.5	17.5	122	2	Q8JGF2	Q8jgf2	ginglymosto
829	98.5	17.5	124	1	HV1E_HUMAN	P01761	homo sapien
830	98.5	17.5	135	1	HV02_XENLA	P20957	xenopus lae
831	98.5	17.5	334	2	Q9IB05	Q9ib05	sphoeroides
832	98.5	17.5	342	2	Q8AXL4	Q8axl4	oncorhynchu
833	98.5	17.5	469	2	Q7Z7P5	Q7z7p5	homo sapien
834	98	17.4	99	2	Q6B6U4	Q6b6u4	oryctolagus

835	98	17.4	101	2	Q6B6S6	Q6b6s6	oryctolagus
836	98	17.4	106	2	Q6B6Y6	Q6b6y6	oryctolagus
837	98	17.4	113	1	HV34_MOUSE	P01803	mus musculu
838	98	17.4	117	1	HV2G_HUMAN	P01825	homo sapien
839	98	17.4	117	1	HV52_MOUSE	P06327	mus musculu
840	98	17.4	126	2	Q8JFD3	Q8jfd3	ginglymosto
841	98	17.4	136	2	Q9YHL6	Q9yhl6	ginglymosto
842	98	17.4	139	2	Q9YHN7	Q9yhn7	ginglymosto
843	98	17.4	229	1	C79B_HUMAN	P40259	homo sapien
844	98	17.4	263	2	Q8AW75	Q8aw75	brachydanio
845	98	17.4	266	2	Q8UUG1	Q8uug1	brachydanio
846	98	17.4	326	2	Q9IAY7	Q9iay7	sphoeroides
847	98	17.4	331	2	Q9IB07	Q9ib07	sphoeroides
848	98	17.4	458	2	Q65ZQ1	Q65zq1	homo sapien
849	97.5	17.3	97	1	HV56_MOUSE	P18527	mus musculu
850	97.5	17.3	97	2	Q6B6U9	Q6b6u9	oryctolagus
851	97.5	17.3	99	2	Q6B702	Q6b702	oryctolagus
852	97.5	17.3	101	2	Q6B6W2	Q6b6w2	oryctolagus
853	97.5	17.3	105	2	Q6B707	Q6b707	oryctolagus
854	97.5	17.3	108	2	Q8JGB0	Q8jgb0	ginglymosto
855	97.5	17.3	110	2	Q8JGC0	Q8jgc0	ginglymosto
856	97.5	17.3	115	2	Q8AXH3	Q8axh3	ginglymosto
857	97.5	17.3	116	1	HV45_MOUSE	P01821	mus musculu
858	97.5	17.3	128	2	Q8JG89	Q8jg89	ginglymosto
859	97.5	17.3	134	1	TVA1_RABIT	P06322	oryctolagus
860	97.5	17.3	144	2	Q9YHK8	Q9yhk8	ginglymosto
861	97.5	17.3	325	2	Q8UWL3	Q8uwl3	ictalurus p
862	97.5	17.3	356	2	Q8AXL7	Q8axl7	oncorhynchu
863	97.5	17.3	479	2	Q6MZV6	Q6mzv6	homo sapien
864	97	17.2	101	2	Q6B6T8	Q6b6t8	oryctolagus
865	97	17.2	114	2	Q8AXG6	Q8axg6	ginglymosto
866	97	17.2	116	1	HV61_MOUSE	P18532	mus musculu
867	97	17.2	144	2	Q9YHN6	Q9yhn6	ginglymosto
868	97	17.2	327	2	Q8UVB4	Q8uvb4	brachydanio
869	97	17.2	496	2	Q96DK0	Q96dk0	homo sapien
870	96.5	17.1	99	2	Q6B760	Q6b760	oryctolagus
871	96.5	17.1	100	2	Q9W6Z8	Q9w6z8	ginglymosto
872	96.5	17.1	104	2	Q9YHJ3	Q9yhj3	ginglymosto
873	96.5	17.1	109	2	Q8AXH9	Q8axh9	ginglymosto
874	96.5	17.1	115	2	Q8AXF6	Q8axf6	ginglymosto
875	96.5	17.1	123	2	Q8JG77	Q8jg77	ginglymosto
876	96.5	17.1	124	2	Q8JG92	Q8jg92	ginglymosto
877	96.5	17.1	125	2	Q8JFJ8	Q8jfj8	ginglymosto
878	96.5	17.1	137	2	Q9YHP9	Q9yhp9	ginglymosto
879	96.5	17.1	313	2	Q8UV45	Q8uv45	brachydanio
880	96.5	17.1	408	2	Q8K094	Q8k094	m hypotheti
881	96.5	17.1	408	2	Q91WP1	Q91wp1	mus musculu
882	96.5	17.1	408	2	Q8BVF6	Q8bvf6	mus musculu
883	96	17.0	102	2	Q9JL79	Q9jl79	mus musculu
884	96	17.0	112	2	Q8JG76	Q8jg76	ginglymosto
885	96	17.0	113	1	HV27_MOUSE	P01796	mus musculu
886	96	17.0	113	1	HV31_MOUSE	P01800	mus musculu
887	96	17.0	115	1	HV32_MOUSE	P01801	mus musculu
888	96	17.0	120	2	Q8JG85	Q8jg85	ginglymosto
889	96	17.0	122	2	Q8JG95	Q8jg95	ginglymosto
890	96	17.0	124	2	Q8JG88	Q8jg88	ginglymosto
891	96	17.0	134	2	Q9YHF8	Q9yhf8	ginglymosto
892	96	17.0	236	2	Q6GYR4	Q6gyr4	sus scrofa
893	96	17.0	487	2	Q80ZI7	Q80zi7	mus musculu
894	96	17.0	509	1	SHS1_RAT	P97710	r protein-t
895	95.5	16.9	97	2	O43234	O43234	homo sapien
896	95.5	16.9	97	2	Q6B718	Q6b718	oryctolagus
897	95.5	16.9	97	2	Q6B728	Q6b728	oryctolagus
898	95.5	16.9	97	2	Q6B733	Q6b733	oryctolagus
899	95.5	16.9	98	2	Q8JFM9	Q8jfm9	ginglymosto
900	95.5	16.9	99	2	Q6B6S1	Q6b6s1	oryctolagus
901	95.5	16.9	99	2	Q6B6Y8	Q6b6y8	oryctolagus
902	95.5	16.9	100	2	Q6B749	Q6b749	oryctolagus
903	95.5	16.9	100	2	Q6B758	Q6b758	oryctolagus
904	95.5	16.9	113	2	Q8AXH6	Q8axh6	ginglymosto
905	95.5	16.9	115	2	Q8AXH2	Q8axh2	ginglymosto
906	95.5	16.9	119	2	Q8JG78	Q8jg78	ginglymosto
907	95.5	16.9	121	2	Q8JGA5	Q8jga5	ginglymosto
908	95.5	16.9	123	2	Q8JG94	Q8jg94	ginglymosto
909	95.5	16.9	125	2	Q8JFK0	Q8jfk0	ginglymosto
910	95.5	16.9	135	2	Q9YHI0	Q9yhi0	ginglymosto
911	95.5	16.9	147	1	HV2H_HUMAN	P04438	homo sapien
912	95.5	16.9	268	2	Q65ZL6	Q65zl6	mus sp. t-c
913	95.5	16.9	473	2	Q6MZV7	Q6mzv7	homo sapien
914	95.5	16.9	477	2	Q6GMX7	Q6gmx7	homo sapien
915	95.5	16.9	483	2	Q6MZX9	Q6mzx9	homo sapien
916	95.5	16.9	494	2	Q96K68	Q96k68	homo sapien
917	95	16.8	202	2	Q8UWK6	Q8uwk6	ictalurus p
918	95	16.8	227	2	Q8UWK9	Q8uwk9	ictalurus p
919	95	16.8	235	2	Q90770	Q90770	gallus gall
920	95	16.8	509	2	Q6P6I8	Q6p6i8	mus musculu
921	94.5	16.8	97	2	Q6B725	Q6b725	oryctolagus
922	94.5	16.8	97	2	Q6B729	Q6b729	oryctolagus
923	94.5	16.8	97	2	Q6B736	Q6b736	oryctolagus
924	94.5	16.8	99	2	Q6B6S3	Q6b6s3	oryctolagus
925	94.5	16.8	99	2	Q6B6W6	Q6b6w6	oryctolagus
926	94.5	16.8	109	2	Q9YHM6	Q9yhm6	ginglymosto
927	94.5	16.8	117	2	Q8AXI3	Q8axi3	ginglymosto
928	94.5	16.8	119	2	Q8JG83	Q8jg83	ginglymosto
929	94.5	16.8	121	2	Q8JFI2	Q8jfi2	ginglymosto
930	94.5	16.8	121	2	Q8JGA9	Q8jga9	ginglymosto
931	94.5	16.8	403	2	Q8HY15	Q8hy15	lemur catta
932	94.5	16.8	494	2	Q6ZW64	Q6zw64	homo sapien
933	94	16.7	93	2	Q8JGE2	Q8jge2	ginglymosto
934	94	16.7	102	2	Q6B6V4	Q6b6v4	oryctolagus
935	94	16.7	114	2	Q8AXG5	Q8axg5	ginglymosto
936	94	16.7	115	2	Q8JFH5	Q8jfh5	ginglymosto
937	94	16.7	122	2	Q99604	Q99604	homo sapien
938	94	16.7	127	2	Q8JG80	Q8jg80	ginglymosto
939	94	16.7	128	2	Q8JGA3	Q8jga3	ginglymosto
940	94	16.7	137	2	Q9YHM0	Q9yhm0	ginglymosto
941	94	16.7	147	2	Q8CFJ3	Q8cfj3	mus musculu
942	94	16.7	167	2	P79986	P79986	gallus gall
943	94	16.7	235	2	Q6QR63	Q6qr63	gallus gall
944	94	16.7	235	2	Q6QR64	Q6qr64	gallus gall
945	94	16.7	268	2	Q90524	Q90524	ginglymosto
946	94	16.7	318	2	Q90Z94	Q90z94	brachydanio
947	94	16.7	328	2	Q8UV42	Q8uv42	brachydanio
948	94	16.7	328	2	Q8UV99	Q8uv99	brachydanio
949	94	16.7	492	2	Q7Z374	Q7z374	homo sapien
950	93.5	16.6	99	2	Q6B739	Q6b739	oryctolagus
951	93.5	16.6	107	2	Q8JGC1	Q8jgc1	ginglymosto
952	93.5	16.6	111	2	Q8AXI0	Q8axi0	ginglymosto
953	93.5	16.6	113	2	Q8AXH4	Q8axh4	ginglymosto
954	93.5	16.6	118	2	Q811U5	Q811u5	mus musculu
955	93.5	16.6	120	2	Q8JFL7	Q8jfl7	ginglymosto
956	93.5	16.6	121	2	Q8JFD7	Q8jfd7	ginglymosto
957	93.5	16.6	125	2	Q8JFJ4	Q8jfj4	ginglymosto
958	93.5	16.6	125	2	Q8JFJ7	Q8jfj7	ginglymosto
959	93.5	16.6	131	2	Q9YHI7	Q9yhi7	ginglymosto
960	93.5	16.6	145	2	Q9YHR0	Q9yhr0	ginglymosto
961	93.5	16.6	147	2	Q9YHL3	Q9yhl3	ginglymosto
962	93.5	16.6	496	2	Q96KX8	Q96kx8	homo sapien
963	93.5	16.6	506	1	SHS1_BOVIN	O46631	bos taurus
964	93	16.5	117	1	HV03_CAICR	P03982	caiman croc
965	93	16.5	118	2	Q8JGA4	Q8jga4	ginglymosto
966	93	16.5	122	2	Q8JG81	Q8jg81	ginglymosto
967	93	16.5	129	2	Q8JG82	Q8jg82	ginglymosto
968	93	16.5	143	2	Q90537	Q90537	ginglymosto
969	93	16.5	164	2	Q90XW9	Q90xw9	orectolobus
970	93	16.5	167	2	P79985	P79985	gallus gall
971	93	16.5	235	2	Q6QR65	Q6qr65	gallus gall
972	93	16.5	260	2	Q8UV96	Q8uv96	brachydanio
973	93	16.5	335	2	Q9PWR4	Q9pwr4	gallus gall
974	93	16.5	335	2	Q9YGH1	Q9ygh1	gallus gall
975	93	16.5	335	2	Q9YGV5	Q9ygv5	gallus gall
976	93	16.5	464	2	Q6GL25	Q6gl25	xenopus tro
977	92.5	16.4	92	2	Q6B6X2	Q6b6x2	oryctolagus
978	92.5	16.4	97	2	Q6B721	Q6b721	oryctolagus
979	92.5	16.4	99	2	Q6B6U0	Q6b6u0	oryctolagus
980	92.5	16.4	99	2	Q6B705	Q6b705	oryctolagus

981	92.5	16.4	99	2	Q6B745	Q6b745 oryctolagus
982	92.5	16.4	99	2	Q9YHN2	Q9yhn2 ginglymosto
983	92.5	16.4	100	2	Q6B6V5	Q6b6v5 oryctolagus
984	92.5	16.4	100	2	Q6B754	Q6b754 oryctolagus
985	92.5	16.4	117	2	Q8AXG9	Q8axg9 ginglymosto
986	92.5	16.4	118	2	Q8JGK3	Q8jgk3 ginglymosto
987	92.5	16.4	120	2	Q8JFC4	Q8jfc4 ginglymosto
988	92.5	16.4	121	2	Q8JG96	Q8jg96 ginglymosto
989	92.5	16.4	123	2	Q8JGA1	Q8jga1 ginglymosto
990	92.5	16.4	142	2	Q9YHR4	Q9yhr4 ginglymosto
991	92.5	16.4	143	2	Q9YHL4	Q9yhl4 ginglymosto
992	92.5	16.4	144	2	Q9YHQ3	Q9yhq3 ginglymosto
993	92.5	16.4	218	2	Q8UVB3	Q8uvb3 brachydanio
994	92.5	16.4	232	2	Q8UVB0	Q8uvb0 brachydanio
995	92.5	16.4	235	2	Q9XSM6	Q9xsm6 saimiri sci
996	92.5	16.4	245	2	Q7ZZ97	Q7zz97 brachydanio
997	92.5	16.4	252	2	Q90568	Q90568 ginglymosto
998	92.5	16.4	266	2	Q6PIP7	Q6pip7 homo sapien
999	92.5	16.4	324	2	Q9IAY9	Q9iay9 sphoeroides
1000	92	16.3	100	2	Q9YHI9	Q9yhi9 ginglymosto
1001	92	16.3	105	2	Q6B6T6	Q6b6t6 oryctolagus
1002	92	16.3	115	1	TVC2_MOUSE	P03978 mus musculu
1003	92	16.3	120	2	Q8AXH0	Q8axh0 ginglymosto
1004	92	16.3	121	2	Q8JFI8	Q8jfi8 ginglymosto
1005	92	16.3	124	2	Q8JGE9	Q8jge9 ginglymosto
1006	92	16.3	170	2	Q925S2	Q925s2 mus musculu
1007	92	16.3	237	2	Q90WI1	Q90wi1 anas platyr
1008	92	16.3	356	2	Q8AW78	Q8aw78 brachydanio
1009	92	16.3	464	2	Q6PIP8	Q6pip8 mus musculu
1010	91.5	16.2	86	2	Q8JFH6	Q8jfh6 ginglymosto
1011	91.5	16.2	93	2	Q6B724	Q6b724 oryctolagus
1012	91.5	16.2	99	2	Q6B737	Q6b737 oryctolagus
1013	91.5	16.2	99	2	Q6B740	Q6b740 oryctolagus
1014	91.5	16.2	100	2	Q6B6W7	Q6b6w7 oryctolagus
1015	91.5	16.2	100	2	Q9YHJ1	Q9yhj1 ginglymosto
1016	91.5	16.2	103	2	Q8JGW7	Q8jgw7 orectolobus
1017	91.5	16.2	104	2	Q9UL87	Q9ul87 homo sapien
1018	91.5	16.2	107	2	Q8JGB8	Q8jgb8 ginglymosto
1019	91.5	16.2	107	2	Q8JGB9	Q8jgb9 ginglymosto
1020	91.5	16.2	107	2	Q8JGH2	Q8jgh2 ginglymosto
1021	91.5	16.2	107	2	Q9YHR2	Q9yhr2 ginglymosto
1022	91.5	16.2	110	2	Q8JGB2	Q8jgb2 ginglymosto
1023	91.5	16.2	111	2	Q8JFI7	Q8jfi7 ginglymosto
1024	91.5	16.2	111	2	Q8AXI1	Q8axi1 ginglymosto
1025	91.5	16.2	116	2	Q8JGC2	Q8jgc2 ginglymosto
1026	91.5	16.2	135	2	Q9YHL9	Q9yhl9 ginglymosto
1027	91.5	16.2	143	2	Q9W6Z7	Q9w6z7 ginglymosto
1028	91.5	16.2	208	2	Q8UV39	Q8uv39 brachydanio
1029	91.5	16.2	215	2	Q6NW73	Q6nw73 brachydanio
1030	91.5	16.2	320	2	Q9IAZ9	Q9iaz9 sphoeroides
1031	91.5	16.2	479	2	Q7TMK4	Q7tmk4 mus musculu
1032	91	16.1	113	1	HV29_MOUSE	P01798 mus musculu
1033	91	16.1	115	1	HV33_MOUSE	P01802 mus musculu
1034	91	16.1	119	2	Q8JGF1	Q8jgf1 ginglymosto
1035	91	16.1	120	2	Q8JGA0	Q8jga0 ginglymosto
1036	91	16.1	120	2	Q8JGE1	Q8jge1 ginglymosto
1037	91	16.1	125	2	Q8JFL8	Q8jfl8 ginglymosto
1038	91	16.1	149	2	Q90526	Q90526 ginglymosto
1039	91	16.1	200	2	Q8UV95	Q8uv95 brachydanio
1040	91	16.1	228	2	O70153	O70153 rattus norv
1041	91	16.1	275	2	Q8UV44	Q8uv44 brachydanio
1042	91	16.1	277	2	Q8UVA1	Q8uva1 brachydanio
1043	91	16.1	327	2	Q8UV63	Q8uv63 brachydanio
1044	90.5	16.0	92	2	Q8JGJ5	Q8jgj5 ginglymosto
1045	90.5	16.0	94	2	Q8JFA4	Q8jfa4 ginglymosto
1046	90.5	16.0	94	2	Q8JGH0	Q8jgh0 ginglymosto
1047	90.5	16.0	96	2	Q8JFL1	Q8jfl1 ginglymosto
1048	90.5	16.0	98	2	Q9YHP7	Q9yhp7 ginglymosto
1049	90.5	16.0	104	2	Q9YHJ0	Q9yhj0 ginglymosto
1050	90.5	16.0	105	2	Q6B6Z3	Q6b6z3 oryctolagus
1051	90.5	16.0	108	2	Q8JGG7	Q8jgg7 ginglymosto
1052	90.5	16.0	108	2	Q8JGH1	Q8jgh1 ginglymosto
1053	90.5	16.0	110	2	Q8JGB1	Q8jgb1 ginglymosto
1054	90.5	16.0	111	2	Q8JGC3	Q8jgc3 ginglymosto
1055	90.5	16.0	111	2	Q6X1E7	Q6x1e7 orectolobus
1056	90.5	16.0	113	2	Q6X1E6	Q6x1e6 orectolobus
1057	90.5	16.0	113	2	Q8AXF8	Q8axf8 ginglymosto
1058	90.5	16.0	119	2	Q8JG93	Q8jg93 ginglymosto
1059	90.5	16.0	121	2	Q8JG79	Q8jg79 ginglymosto
1060	90.5	16.0	167	2	Q90XX1	Q90xx1 orectolobus
1061	90.5	16.0	282	2	Q8UV46	Q8uv46 brachydanio
1062	90.5	16.0	282	2	Q8UVA2	Q8uva2 brachydanio
1063	90.5	16.0	321	2	Q7T115	Q7t115 brachydanio
1064	90.5	16.0	368	2	Q6F5F1	Q6f5f1 mus musculu
1065	90.5	16.0	391	2	Q6F5F0	Q6f5f0 mus musculu
1066	90.5	16.0	481	2	Q6N097	Q6n097 homo sapien
1067	90	16.0	96	2	Q90534	Q90534 ginglymosto
1068	90	16.0	104	2	Q6B6V8	Q6b6v8 oryctolagus
1069	90	16.0	108	2	Q8JFK4	Q8jfk4 ginglymosto
1070	90	16.0	110	2	Q8JFK6	Q8jfk6 ginglymosto
1071	90	16.0	113	1	HV28_MOUSE	P01797 mus musculu
1072	90	16.0	117	1	HV59_MOUSE	P18530 mus musculu
1073	90	16.0	118	2	Q8JFL5	Q8jfl5 ginglymosto
1074	90	16.0	119	2	Q8JFC5	Q8jfc5 ginglymosto
1075	90	16.0	119	2	Q8JFF1	Q8jff1 ginglymosto
1076	90	16.0	120	2	Q8JFE5	Q8jfe5 ginglymosto
1077	90	16.0	120	2	Q8JFI5	Q8jfi5 ginglymosto
1078	90	16.0	120	2	Q8JGF7	Q8jgf7 ginglymosto
1079	90	16.0	120	2	Q8JGG2	Q8jgg2 ginglymosto
1080	90	16.0	121	2	Q8JGG0	Q8jgg0 ginglymosto
1081	90	16.0	123	2	Q8JGG3	Q8jgg3 ginglymosto
1082	90	16.0	129	2	Q8JFJ3	Q8jfj3 ginglymosto
1083	90	16.0	132	2	Q8JFJ1	Q8jfj1 ginglymosto
1084	90	16.0	146	2	Q9YHL1	Q9yhl1 ginglymosto
1085	90	16.0	150	2	Q8JFI9	Q8jfi9 ginglymosto
1086	90	16.0	151	2	Q8JFJ2	Q8jfj2 ginglymosto
1087	90	16.0	316	2	Q8AW77	Q8aw77 brachydanio
1088	90	16.0	324	2	Q8UV98	Q8uv98 brachydanio
1089	90	16.0	470	2	Q7Z5W1	Q7z5w1 homo sapien
1090	90	16.0	572	2	Q66IQ7	Q66iq7 xenopus lae
1091	90	16.0	1730	2	Q7YRQ7	Q7yrq7 sus scrofa
1092	89.5	15.9	97	2	Q6B742	Q6b742 oryctolagus
1093	89.5	15.9	97	2	Q9YHJ4	Q9yhj4 ginglymosto
1094	89.5	15.9	99	2	Q6B6X0	Q6b6x0 oryctolagus
1095	89.5	15.9	99	2	Q6B743	Q6b743 oryctolagus
1096	89.5	15.9	100	2	Q6B753	Q6b753 oryctolagus
1097	89.5	15.9	104	2	Q8JFK9	Q8jfk9 ginglymosto
1098	89.5	15.9	106	2	Q6B6U1	Q6b6u1 oryctolagus
1099	89.5	15.9	109	2	Q8JFH1	Q8jfh1 ginglymosto
1100	89.5	15.9	110	2	Q8JFH4	Q8jfh4 ginglymosto
1101	89.5	15.9	120	2	Q8JGE5	Q8jge5 ginglymosto
1102	89.5	15.9	126	1	HV2A_HUMAN	P01814 homo sapien
1103	89.5	15.9	142	2	Q9YHQ4	Q9yhq4 ginglymosto
1104	89.5	15.9	144	2	Q9YHR3	Q9yhr3 ginglymosto
1105	89.5	15.9	146	2	Q9YHQ5	Q9yhq5 ginglymosto
1106	89.5	15.9	226	2	Q8NHI1	Q8nhi1 homo sapien
1107	89.5	15.9	246	2	Q8UVA4	Q8uva4 brachydanio
1108	89.5	15.9	256	2	Q8AW73	Q8aw73 brachydanio
1109	89.5	15.9	303	2	Q9UKJ1	Q9ukj1 homo sapien
1110	89.5	15.9	324	2	Q8UV72	Q8uv72 brachydanio
1111	89.5	15.9	324	2	Q7ZZ96	Q7zz96 brachydanio
1112	89.5	15.9	326	2	Q8UVA9	Q8uva9 brachydanio
1113	89.5	15.9	391	2	Q6F5F2	Q6f5f2 mus musculu
1114	89	15.8	106	2	Q6B6X9	Q6b6x9 oryctolagus
1115	89	15.8	112	2	Q9UGP3	Q9ugp3 homo sapien
1116	89	15.8	117	2	Q8UV59	Q8uv59 brachydanio
1117	89	15.8	119	1	HV2C_HUMAN	P01816 homo sapien
1118	89	15.8	120	2	Q8JFJ6	Q8jfj6 ginglymosto
1119	89	15.8	128	2	Q90562	Q90562 ginglymosto
1120	89	15.8	210	2	Q8R1M4	Q8r1m4 mus musculu
1121	89	15.8	215	2	Q8UWK7	Q8uwk7 ictalurus p
1122	89	15.8	262	2	Q8AW71	Q8aw71 brachydanio
1123	89	15.8	277	2	Q7T116	Q7t116 brachydanio
1124	89	15.8	318	2	Q9IB03	Q9ib03 sphoeroides
1125	89	15.8	326	2	Q8UV70	Q8uv70 brachydanio
1126	89	15.8	327	2	Q8UV97	Q8uv97 brachydanio

1127	89	15.8	328	2	Q8UV77	Q8uv77 brachydanio
1128	89	15.8	332	2	Q9IB08	Q9ib08 sphoeroides
1129	89	15.8	333	2	Q8UV64	Q8uv64 brachydanio
1130	88.5	15.7	89	1	HV02_HETFR	P04215 heterodontu
1131	88.5	15.7	97	2	Q6B711	Q6b711 oryctolagus
1132	88.5	15.7	99	2	Q6B762	Q6b762 oryctolagus
1133	88.5	15.7	99	2	Q9YHM9	Q9yhm9 ginglymosto
1134	88.5	15.7	100	2	Q6B755	Q6b755 oryctolagus
1135	88.5	15.7	100	2	Q6B756	Q6b756 oryctolagus
1136	88.5	15.7	119	2	Q8JGA6	Q8jga6 ginglymosto
1137	88.5	15.7	122	2	Q8JGG1	Q8jgg1 ginglymosto
1138	88.5	15.7	149	2	Q90525	Q90525 ginglymosto
1139	88.5	15.7	223	2	Q8AW69	Q8aw69 brachydanio
1140	88.5	15.7	280	2	Q8UWK1	Q8uwk1 ictalurus p
1141	88.5	15.7	280	2	Q8UWL1	Q8uwl1 ictalurus p
1142	88.5	15.7	306	2	Q6GMV6	Q6gmv6 homo sapien
1143	88.5	15.7	324	2	Q8UV37	Q8uv37 brachydanio
1144	88.5	15.7	336	2	Q8UV41	Q8uv41 brachydanio
1145	88.5	15.7	1343	1	VGR2_RAT	O08775 rattus norv
1146	88	15.6	92	2	Q9YHS6	Q9yhs6 ginglymosto
1147	88	15.6	99	2	Q9YHM5	Q9yhm5 ginglymosto
1148	88	15.6	101	2	Q8JGA2	Q8jga2 ginglymosto
1149	87.5	15.5	97	2	Q6B750	Q6b750 oryctolagus
1150	87.5	15.5	114	2	Q8JGE6	Q8jge6 ginglymosto
1151	87.5	15.5	135	2	Q90542	Q90542 ginglymosto
1152	87.5	15.5	147	2	Q9YHN4	Q9yhn4 ginglymosto
1153	87.5	15.5	226	2	Q9I9J9	Q9i9j9 ambystoma m
1154	87.5	15.5	412	2	Q9R1E1	Q9r1e1 rattus norv
1155	87	15.4	115	2	Q8JGK4	Q8jgk4 ginglymosto
1156	87	15.4	239	2	Q6NSA6	Q6nsa6 homo sapien
1157	87	15.4	257	2	Q90536	Q90536 ginglymosto
1158	87	15.4	261	2	Q8UV67	Q8uv67 brachydanio
1159	87	15.4	303	2	Q8UV60	Q8uv60 brachydanio
1160	87	15.4	318	2	Q8UVB2	Q8uvb2 brachydanio
1161	87	15.4	322	2	Q8UV61	Q8uv61 brachydanio
1162	87	15.4	324	2	Q8UVA6	Q8uva6 brachydanio
1163	87	15.4	325	2	Q8UV52	Q8uv52 brachydanio
1164	87	15.4	328	2	Q8AW72	Q8aw72 brachydanio
1165	87	15.4	337	2	Q8UVB1	Q8uvb1 brachydanio
1166	86.5	15.3	97	2	Q6B730	Q6b730 oryctolagus
1167	86.5	15.3	97	2	Q6B747	Q6b747 oryctolagus
1168	86.5	15.3	99	2	Q6B6X8	Q6b6x8 oryctolagus
1169	86.5	15.3	99	2	Q6B6Z7	Q6b6z7 oryctolagus
1170	86.5	15.3	99	2	Q6B744	Q6b744 oryctolagus
1171	86.5	15.3	99	2	Q6B759	Q6b759 oryctolagus
1172	86.5	15.3	99	2	Q8JGE7	Q8jge7 ginglymosto
1173	86.5	15.3	100	2	Q6B6T7	Q6b6t7 oryctolagus
1174	86.5	15.3	107	2	Q8JGK7	Q8jgk7 ginglymosto
1175	86.5	15.3	121	2	Q8JGH8	Q8jgh8 ginglymosto
1176	86.5	15.3	123	2	Q8JFJ9	Q8jfj9 ginglymosto
1177	86.5	15.3	191	2	Q6TCH9	Q6tch9 homo sapien
1178	86.5	15.3	318	2	Q91664	Q91664 xenopus lae
1179	86.5	15.3	412	2	Q63611	Q63611 rattus norv
1180	86.5	15.3	415	2	Q60977	Q60977 mus musculu
1181	86.5	15.3	471	2	Q66K04	Q66k04 mus musculu
1182	86	15.2	117	2	Q8JFL4	Q8jfl4 ginglymosto
1183	86	15.2	117	2	Q7ZZ68	Q7zz68 brachydanio
1184	86	15.2	120	2	Q8JFD9	Q8jfd9 ginglymosto
1185	86	15.2	125	1	HV1F_HUMAN	P06326 homo sapien
1186	86	15.2	218	2	Q9YJT4	Q9yjt4 myxoma viru
1187	86	15.2	235	2	Q8VH42	Q8vh42 sigmodon hi
1188	86	15.2	240	1	CD7_HUMAN	P09564 homo sapien
1189	86	15.2	279	2	Q8UV43	Q8uv43 brachydanio
1190	86	15.2	305	2	Q8UVA0	Q8uva0 brachydanio
1191	86	15.2	318	2	Q90Z93	Q90z93 brachydanio
1192	86	15.2	328	2	Q8UV66	Q8uv66 brachydanio
1193	86	15.2	358	2	Q8UV81	Q8uv81 brachydanio
1194	85.5	15.2	91	2	Q8JGH3	Q8jgh3 ginglymosto
1195	85.5	15.2	91	2	Q9YHL0	Q9yhl0 ginglymosto
1196	85.5	15.2	95	2	Q9YHS5	Q9yhs5 ginglymosto
1197	85.5	15.2	98	2	Q9YHS8	Q9yhs8 ginglymosto
1198	85.5	15.2	99	2	Q6B746	Q6b746 oryctolagus
1199	85.5	15.2	104	2	Q9PSX8	Q9psx8 ginglymosto
1200	85.5	15.2	120	1	HV2B_HUMAN	P01815 homo sapien
1201	85.5	15.2	200	2	Q6IPT1	Q6ipt1 homo sapien
1202	85	15.1	120	2	Q8JFL9	Q8jfl9 ginglymosto
1203	85	15.1	130	2	Q90554	Q90554 ginglymosto
1204	85	15.1	210	1	CD7_MOUSE	P50283 mus musculu
1205	85	15.1	276	2	Q8AW79	Q8aw79 brachydanio
1206	85	15.1	278	2	Q8AW80	Q8aw80 brachydanio
1207	85	15.1	308	2	Q8UV65	Q8uv65 brachydanio
1208	85	15.1	318	2	Q8UV84	Q8uv84 brachydanio
1209	85	15.1	318	2	Q90Z82	Q90z82 brachydanio
1210	85	15.1	337	2	Q8UV83	Q8uv83 brachydanio
1211	85	15.1	337	2	Q90Z85	Q90z85 brachydanio
1212	85	15.1	417	1	PVR_HUMAN	P15151 homo sapien
1213	85	15.1	757	1	PIGR_BOVIN	P81265 bos taurus
1214	84.5	15.0	97	2	Q6B731	Q6b731 oryctolagus
1215	84.5	15.0	98	2	Q9YHR1	Q9yhr1 ginglymosto
1216	84.5	15.0	99	2	Q6B738	Q6b738 oryctolagus
1217	84.5	15.0	99	2	Q6B761	Q6b761 oryctolagus
1218	84.5	15.0	101	2	Q9YHK0	Q9yhk0 ginglymosto
1219	84.5	15.0	121	2	Q8JG86	Q8jg86 ginglymosto
1220	84.5	15.0	235	2	Q9H101	Q9h101 homo sapien
1221	84.5	15.0	237	2	Q90545	Q90545 ginglymosto
1222	84.5	15.0	473	2	Q8TC63	Q8tc63 homo sapien
1223	84.5	15.0	489	2	Q7PN01	Q7pn01 anopheles g
1224	84.5	15.0	605	2	Q6GN83	Q6gn83 xenopus lae
1225	84	14.9	108	2	Q8JFH3	Q8jfh3 ginglymosto
1226	84	14.9	108	2	Q8AXH7	Q8axh7 ginglymosto
1227	84	14.9	117	2	Q8UV56	Q8uv56 brachydanio
1228	84	14.9	118	2	Q8UUG5	Q8uug5 brachydanio
1229	84	14.9	120	2	Q8JGE3	Q8jge3 ginglymosto
1230	84	14.9	120	2	Q8JGF8	Q8jgf8 ginglymosto
1231	84	14.9	127	2	Q9D3G4	Q9d3g4 mus musculu
1232	84	14.9	152	2	Q8JFJ0	Q8jfj0 ginglymosto
1233	84	14.9	157	2	O95978	O95978 homo sapien
1234	84	14.9	208	2	Q6ZP87	Q6zp87 homo sapien
1235	84	14.9	318	2	Q90Z81	Q90z81 brachydanio
1236	84	14.9	572	2	Q89N84	Q89n84 bradyrhizob
1237	83.5	14.8	100	2	Q6B748	Q6b748 oryctolagus
1238	83.5	14.8	242	1	CD8A_BOVIN	P31783 bos taurus
1239	83.5	14.8	4071	2	Q6KDZ1	Q6kdz1 gallus gall
1240	83	14.7	113	2	Q8JGD4	Q8jgd4 ginglymosto
1241	83	14.7	113	2	Q8JGG8	Q8jgg8 ginglymosto
1242	83	14.7	114	2	Q8JFI4	Q8jfi4 ginglymosto
1243	83	14.7	114	2	Q8JGL5	Q8jgl5 ginglymosto
1244	83	14.7	116	1	HV3Q_HUMAN	P01778 homo sapien
1245	83	14.7	120	2	Q8JFL2	Q8jfl2 ginglymosto
1246	83	14.7	120	2	Q8JG87	Q8jg87 ginglymosto
1247	83	14.7	228	1	C79B_MOUSE	P15530 mus musculu
1248	83	14.7	280	2	Q8UV51	Q8uv51 brachydanio
1249	83	14.7	291	2	Q8UVA7	Q8uva7 brachydanio
1250	83	14.7	303	2	Q8UVA8	Q8uva8 brachydanio
1251	83	14.7	321	2	Q8UV49	Q8uv49 brachydanio
1252	83	14.7	331	2	Q8UV50	Q8uv50 brachydanio
1253	83	14.7	351	2	Q6WEB2	Q6web2 branchiosto
1254	82.5	14.6	70	2	Q9PSX9	Q9psx9 ginglymosto
1255	82.5	14.6	117	2	Q8JFJ5	Q8jfj5 ginglymosto
1256	82.5	14.6	118	2	Q8JFK1	Q8jfk1 ginglymosto
1257	82.5	14.6	149	2	Q9YHK6	Q9yhk6 ginglymosto
1258	82.5	14.6	150	2	Q90551	Q90551 ginglymosto
1259	82.5	14.6	209	1	CD8B_SAISC	Q9xsm7 saimiri sci
1260	82.5	14.6	391	2	Q76CT6	Q76ct6 mus musculu
1261	82.5	14.6	1437	2	O15070	O15070 homo sapien
1262	82	14.5	85	2	Q8JGL0	Q8jgl0 ginglymosto
1263	82	14.5	107	2	Q8JFK3	Q8jfk3 ginglymosto
1264	82	14.5	109	2	Q8JFK5	Q8jfk5 ginglymosto
1265	82	14.5	112	2	Q8JFM8	Q8jfm8 ginglymosto
1266	82	14.5	117	2	Q8UV57	Q8uv57 brachydanio
1267	82	14.5	119	2	Q8JFD8	Q8jfd8 ginglymosto
1268	82	14.5	120	2	Q8JFD0	Q8jfd0 ginglymosto
1269	82	14.5	120	2	Q8JFE4	Q8jfe4 ginglymosto
1270	82	14.5	120	2	Q8JG90	Q8jg90 ginglymosto
1271	82	14.5	196	2	Q8K249	Q8k249 mus musculu
1272	82	14.5	243	2	Q641C4	Q641c4 xenopus lae

1273	82	14.5	503	1	SHS1_HUMAN	P78324	h protein-t
1274	82	14.5	570	2	Q6GMZ9	Q6gmz9	xenopus lae
1275	81.5	14.5	90	2	Q9YHJ9	Q9yhj9	ginglymosto
1276	81.5	14.5	97	2	Q9YHP6	Q9yhp6	ginglymosto
1277	81.5	14.5	137	2	Q9YHH6	Q9yhh6	ginglymosto
1278	81.5	14.5	152	2	Q6ZVS2	Q6zvs2	homo sapien
1279	81.5	14.5	468	2	Q9BX59	Q9bx59	homo sapien
1280	81.5	14.5	468	2	Q9NWB8	Q9nwb8	homo sapien
1281	81.5	14.5	773	1	PIGR_RABIT	P01832	oryctolagus
1282	81.5	14.5	1280	2	Q9EPX2	Q9epx2	mus musculu
1283	81	14.4	90	2	Q8JGL1	Q8jgl1	ginglymosto
1284	81	14.4	120	2	Q8JGE8	Q8jge8	ginglymosto
1285	81	14.4	120	2	Q8JGF0	Q8jgf0	ginglymosto
1286	81	14.4	210	2	Q6I748	Q6i748	felis silve
1287	81	14.4	244	2	Q8UWL0	Q8uwl0	ictalurus p
1288	81	14.4	259	2	Q8UVA5	Q8uva5	brachydanio
1289	81	14.4	261	2	Q8AUQ4	Q8auq4	brachydanio
1290	81	14.4	277	2	Q8AW70	Q8aw70	brachydanio
1291	81	14.4	606	2	Q9ESS7	Q9ess7	mus musculu
1292	81	14.4	646	1	MU18_HUMAN	P43121	homo sapien
1293	81	14.4	646	2	O95812	O95812	homo sapien
1294	81	14.4	646	2	Q6PHR3	Q6phr3	homo sapien
1295	81	14.4	648	2	Q9EPF1	Q9epf1	mus musculu
1296	81	14.4	648	2	Q8R2Y2	Q8r2y2	mus musculu
1297	80.5	14.3	83	2	Q8JGK9	Q8jgk9	ginglymosto
1298	80.5	14.3	119	2	Q99601	Q99601	homo sapien
1299	80.5	14.3	129	1	HV2F_HUMAN	P01824	homo sapien
1300	80.5	14.3	416	2	Q9NPP6	Q9npp6	homo sapien
1301	80.5	14.3	1150	2	Q8BS24	Q8bs24	mus musculu
1302	80.5	14.3	1209	2	P70232	P70232	mus musculu
1303	80	14.2	112	2	Q8JGL6	Q8jgl6	ginglymosto
1304	80	14.2	179	2	P79988	P79988	gallus gall
1305	80	14.2	179	2	Q788N4	Q788n4	gallus gall
1306	80	14.2	207	2	Q90769	Q90769	gallus gall
1307	80	14.2	260	2	Q8UV69	Q8uv69	brachydanio
1308	80	14.2	337	2	Q90Z83	Q90z83	brachydanio
1309	80	14.2	337	2	Q90Z84	Q90z84	brachydanio
1310	80	14.2	832	2	Q7R5M6	Q7r5m6	giardia lam
1311	79.5	14.1	79	2	Q9YHG2	Q9yhg2	ginglymosto
1312	79.5	14.1	99	2	Q6B719	Q6b719	oryctolagus
1313	79.5	14.1	116	2	Q8JFM0	Q8jfm0	ginglymosto
1314	79.5	14.1	165	2	Q90XX0	Q90xx0	orectolobus
1315	79.5	14.1	259	2	Q90530	Q90530	ginglymosto
1316	79	14.0	113	2	Q8JGD9	Q8jgd9	ginglymosto
1317	79	14.0	119	2	Q8JGE4	Q8jge4	ginglymosto
1318	79	14.0	262	2	Q9PTR7	Q9ptr7	sphoeroides
1319	79	14.0	341	2	Q9IB06	Q9ib06	sphoeroides
1320	79	14.0	564	2	Q9DAV2	Q9dav2	mus musculu
1321	79	14.0	688	2	O55095	O55095	mus musculu
1322	79	14.0	1333	1	VGR1_MOUSE	P35969	mus musculu
1323	79	14.0	6620	2	Q96AA2	Q96aa2	homo sapien
1324	78.5	13.9	91	2	Q9YHS4	Q9yhs4	ginglymosto
1325	78.5	13.9	227	2	Q9UKJ0	Q9ukj0	homo sapien
1326	78.5	13.9	236	1	CD8A_RAT	P07725	rattus norv
1327	78.5	13.9	398	2	Q7Z3B9	Q7z3b9	homo sapien
1328	78.5	13.9	438	2	Q6INH8	Q6inh8	xenopus lae
1329	78.5	13.9	460	1	IL6A_MOUSE	P22272	mus musculu
1330	78.5	13.9	484	2	Q99JQ8	Q99jq8	mus musculu
1331	78.5	13.9	500	2	Q9W260	Q9w260	drosophila
1332	78.5	13.9	500	2	Q9XZB7	Q9xzb7	drosophila
1333	78.5	13.9	1694	1	SN_MOUSE	Q62230	mus musculu
1334	78	13.8	97	2	Q8HYS6	Q8hys6	pan troglod
1335	78	13.8	97	2	Q8HYS9	Q8hys9	saimiri sci
1336	78	13.8	113	2	Q8JFC8	Q8jfc8	ginglymosto
1337	78	13.8	117	2	Q8AW76	Q8aw76	brachydanio
1338	78	13.8	119	2	Q8JGI5	Q8jgi5	ginglymosto
1339	78	13.8	238	2	Q67W67	Q67w67	oryza sativ
1340	78	13.8	339	2	Q9IB09	Q9ib09	sphoeroides
1341	78	13.8	341	2	Q8I9K3	Q8i9k3	branchiosto
1342	78	13.8	477	2	Q6UXJ4	Q6uxj4	homo sapien
1343	78	13.8	542	2	Q8NHN5	Q8nhn5	homo sapien
1344	78	13.8	687	2	Q9JJ08	Q9jj08	rattus norv
1345	78	13.8	907	2	Q9NEG0	Q9neg0	drosophila
1346	78	13.8	1066	2	Q8MSR5	Q8msr5	drosophila
1347	78	13.8	1215	2	Q6CHV4	Q6chv4	yarrowia li
1348	78	13.8	1275	2	O76602	O76602	caenorhabdi
1349	78	13.8	1336	1	VGR1_RAT	P53767	rattus norv
1350	78	13.8	3215	2	Q8IRV7	Q8irv7	drosophila
1351	78	13.8	4117	2	Q8IRV9	Q8irv9	drosophila
1352	78	13.8	4179	2	Q9W4Y4	Q9w4y4	drosophila
1353	78	13.8	4223	2	Q8MPN3	Q8mpn3	drosophila
1354	78	13.8	4228	2	Q8IRV8	Q8irv8	drosophila
1355	77.5	13.7	75	2	Q9YHK1	Q9yhk1	ginglymosto
1356	77.5	13.7	81	2	Q8JGK8	Q8jgk8	ginglymosto
1357	77.5	13.7	130	2	Q9YHG0	Q9yhg0	ginglymosto
1358	77.5	13.7	239	1	CD8A_CANFA	P33706	canis famil
1359	77.5	13.7	241	2	Q6ZCB0	Q6zcb0	oryza sativ
1360	77.5	13.7	379	2	Q8BLX5	Q8blx5	mus musculu
1361	77.5	13.7	397	2	Q8BFX8	Q8bfx8	m mus muscu
1362	77.5	13.7	860	2	Q21021	Q21021	caenorhabdi
1363	77.5	13.7	884	2	Q86G90	Q86g90	caenorhabdi
1364	77.5	13.7	7962	2	Q10465	Q10465	homo sapien
1365	77.5	13.7	34350	2	Q8WZ42	Q8wz42	homo sapien
1366	77	13.7	117	2	Q7ZZ67	Q7zz67	brachydanio
1367	77	13.7	118	2	Q7ZZ69	Q7zz69	brachydanio
1368	77	13.7	164	2	Q90XX2	Q90xx2	orectolobus
1369	77	13.7	236	2	Q6ZP85	Q6zp85	homo sapien
1370	77	13.7	400	2	Q8HY16	Q8hy16	cebus apell
1371	77	13.7	431	2	Q99MF4	Q99mf4	rattus norv
1372	77	13.7	457	2	Q6CVS7	Q6cvs7	kluyveromyc
1373	77	13.7	478	2	Q6NYH3	Q6nyh3	homo sapien
1374	77	13.7	531	2	Q659F2	Q659f2	homo sapien
1375	77	13.7	659	2	Q6ZNM1	Q6znm1	homo sapien
1376	77	13.7	660	2	Q7Z681	Q7z681	homo sapien
1377	77	13.7	869	2	Q9ZIX2	Q9zix2	pseudoalter
1378	77	13.7	1235	2	O95428	O95428	homo sapien
1379	77	13.7	2276	2	Q6BIN7	Q6bin7	debaryomyce
1380	77	13.7	2656	2	Q9GNU3	Q9gnu3	paracentrot
1381	76.5	13.6	95	2	Q9YHS3	Q9yhs3	ginglymosto
1382	76.5	13.6	96	2	Q9YHK2	Q9yhk2	ginglymosto
1383	76.5	13.6	97	2	Q6B732	Q6b732	oryctolagus
1384	76.5	13.6	100	2	Q9YHJ8	Q9yhj8	ginglymosto
1385	76.5	13.6	215	2	Q6DE47	Q6de47	xenopus lae
1386	76.5	13.6	327	1	HXD1_MOUSE	Q01822	mus musculu
1387	76.5	13.6	331	2	Q9IB01	Q9ib01	sphoeroides
1388	76.5	13.6	372	2	Q90Y50	Q90y50	brachydanio
1389	76.5	13.6	388	2	Q7KYJ7	Q7kyj7	homo sapien
1390	76.5	13.6	422	2	Q16542	Q16542	homo sapien
1391	76.5	13.6	451	2	Q8VD31	Q8vd31	mus musculu
1392	76.5	13.6	687	1	VS41_GIALA	P92127	giardia lam
1393	76.5	13.6	749	2	Q9C6N5	Q9c6n5	arabidopsis
1394	76.5	13.6	819	2	Q8SWW5	Q8sww5	drosophila
1395	76.5	13.6	943	2	Q9SFX7	Q9sfx7	arabidopsis
1396	76.5	13.6	1844	2	Q9V9S7	Q9v9s7	drosophila
1397	76.5	13.6	3590	2	Q84MP8	Q84mp8	oryza sativ
1398	76	13.5	89	2	Q8JFM4	Q8jfm4	ginglymosto
1399	76	13.5	118	2	Q9UL74	Q9ul74	homo sapien
1400	76	13.5	178	2	Q6R4N4	Q6r4n4	sus scrofa
1401	76	13.5	195	2	Q6R2U9	Q6r2u9	sus scrofa
1402	76	13.5	222	2	Q8IYM6	Q8iym6	homo sapien
1403	76	13.5	318	2	Q8UV55	Q8uv55	brachydanio
1404	75.5	13.4	90	2	Q9YHS1	Q9yhs1	ginglymosto
1405	75.5	13.4	114	2	Q8HYT4	Q8hyt4	canis famil
1406	75.5	13.4	118	2	Q7ZZ98	Q7zz98	brachydanio
1407	75.5	13.4	122	2	Q9UL75	Q9ul75	homo sapien
1408	75.5	13.4	141	2	Q9R041	Q9r041	meriones un
1409	75.5	13.4	192	1	NCT3_RAT	Q8cfd9	rattus norv
1410	75.5	13.4	241	2	Q8WWD8	Q8wwd8	homo sapien
1411	75.5	13.4	318	2	Q7YQP1	Q7yqp1	crocuta cro
1412	75.5	13.4	398	1	SRB1_HUMAN	O00241	homo sapien
1413	75.5	13.4	485	2	Q7NPD8	Q7npd8	gloeobacter
1414	75.5	13.4	656	2	Q75W38	Q75w38	hydrogenovi
1415	75.5	13.4	671	2	Q9G065	Q9g065	vibrio phag
1416	75.5	13.4	4816	2	Q8T103	Q8t103	bombyx mori
1417	75.5	13.4	18412	2	Q7ZZ61	Q7zz61	brachydanio
1418	75	13.3	115	2	Q9BZK2	Q9bzk2	homo sapien

1419	75	13.3	120	1	TVB3_MOUSE	P01736	mus musculu
1420	75	13.3	137	2	O95653	O95653	homo sapien
1421	75	13.3	140	2	Q9YHL5	Q9yhl5	ginglymosto
1422	75	13.3	160	2	Q8TDA6	Q8tda6	homo sapien
1423	75	13.3	206	2	Q8SXJ2	Q8sxj2	drosophila
1424	75	13.3	223	1	CTL4_HUMAN	P16410	homo sapien
1425	75	13.3	266	2	Q9X671	Q9x671	streptococc
1426	75	13.3	401	2	Q08835	Q08835	cercopithec
1427	75	13.3	426	2	Q9DCD9	Q9dcd9	mus musculu
1428	75	13.3	503	2	Q9W259	Q9w259	drosophila
1429	75	13.3	755	2	Q6W8X4	Q6w8x4	influenza a
1430	75	13.3	814	2	Q8IVU1	Q8ivu1	homo sapien
1431	75	13.3	972	2	Q76II0	Q76ii0	callithrix
1432	75	13.3	1249	2	Q7TMZ9	Q7tmz9	rattus norv
1433	75	13.3	1389	2	Q90Z69	Q90z69	brachydanio
1434	75	13.3	1419	2	Q98SW3	Q98sw3	brachydanio
1435	75	13.3	3707	1	PGBM_MOUSE	Q05793	mus musculu
1436	75	13.3	4162	2	Q98918	Q98918	gallus gall
1437	74.5	13.2	110	2	Q8JGC9	Q8jgc9	ginglymosto
1438	74.5	13.2	113	2	Q8JFM7	Q8jfm7	ginglymosto
1439	74.5	13.2	126	2	Q90Z97	Q90z97	danio aequi
1440	74.5	13.2	588	1	TAN_ASPOR	P78581	aspergillus
1441	74.5	13.2	862	2	Q9RQJ3	Q9rqj3	aeromonas h
1442	74.5	13.2	866	2	Q9L5D5	Q9l5d5	aeromonas h
1443	74.5	13.2	1249	1	TPP2_HUMAN	P29144	homo sapien
1444	74.5	13.2	1249	1	TPP2_RAT	Q64560	rattus norv
1445	74.5	13.2	1262	1	TPP2_MOUSE	Q64514	mus musculu
1446	74.5	13.2	4535	2	Q7QHG6	Q7qhg6	anopheles g
1447	74	13.1	113	2	Q8JGD5	Q8jgd5	ginglymosto
1448	74	13.1	136	1	TVB6_MOUSE	P04214	mus musculu
1449	74	13.1	205	2	Q7Z7I3	Q7z7i3	homo sapien
1450	74	13.1	304	2	Q9CVA4	Q9cva4	mus musculu
1451	74	13.1	328	2	Q9Z109	Q9z109	mus musculu
1452	74	13.1	376	2	Q90Z71	Q90z71	brachydanio
1453	74	13.1	432	2	P70225	P70225	mus musculu
1454	74	13.1	432	2	Q78DW8	Q78dw8	mus musculu
1455	74	13.1	432	2	Q64385	Q64385	mus musculu
1456	74	13.1	432	2	Q6NSQ0	Q6nsq0	mus musculu
1457	74	13.1	558	2	Q6BI51	Q6bi51	debaryomyce
1458	74	13.1	688	2	Q8K1H4	Q8k1h4	mus musculu
1459	74	13.1	736	2	Q9VWH1	Q9vwh1	drosophila
1460	74	13.1	771	1	PIGR_MOUSE	O70570	mus musculu
1461	74	13.1	997	2	O44087	O44087	caenorhabdi
1462	74	13.1	1065	1	LIG2_HUMAN	O94898	homo sapien
1463	74	13.1	1133	2	Q7SA96	Q7sa96	neurospora
1464	74	13.1	1247	2	Q7Q0S6	Q7q0s6	anopheles g
1465	74	13.1	1256	2	O35158	O35158	rattus norv
1466	74	13.1	1264	2	O14631	O14631	homo sapien
1467	74	13.1	1614	2	Q8UVD7	Q8uvd7	xenopus lae
1468	74	13.1	1675	2	Q98SW4	Q98sw4	brachydanio
1469	74	13.1	2071	1	BEM2_ASHGO	Q9hf75	ashbya goss
1470	73.5	13.0	141	2	Q8NA04	Q8na04	homo sapien
1471	73.5	13.0	201	2	Q7XIS3	Q7xis3	oryza sativ
1472	73.5	13.0	406	2	Q8N7T8	Q8n7t8	homo sapien
1473	73.5	13.0	430	2	Q8N4F1	Q8n4f1	homo sapien
1474	73.5	13.0	869	2	O85041	O85041	thiobacillu
1475	73.5	13.0	1092	2	Q91ZT0	Q91zt0	rattus norv
1476	73.5	13.0	1224	2	O00533	O00533	homo sapien
1477	73.5	13.0	1345	2	Q8VCD0	Q8vcd0	mus musculu
1478	73.5	13.0	1363	1	VGR3_MOUSE	P35917	mus musculu
1479	73.5	13.0	1363	2	Q91ZT1	Q91zt1	rattus norv
1480	73.5	13.0	1367	1	VGR2_MOUSE	P35918	mus musculu
1481	73.5	13.0	1496	2	Q92626	Q92626	homo sapien
1482	73.5	13.0	2217	2	Q8TP72	Q8tp72	methanosarc
1483	73.5	13.0	3950	2	Q7YRF5	Q7yrf5	canis famil
1484	73	12.9	97	2	Q8HYS7	Q8hys7	callithrix
1485	73	12.9	118	2	Q8JFL3	Q8jfl3	ginglymosto
1486	73	12.9	208	2	Q6W8W6	Q6w8w6	cavia porce
1487	73	12.9	223	2	Q7JHJ0	Q7jhj0	macaca neme
1488	73	12.9	223	2	Q7JHJ2	Q7jhj2	cercocebus
1489	73	12.9	223	2	Q9BDC4	Q9bdc4	macaca mula
1490	73	12.9	223	2	Q9BDN7	Q9bdn7	papio anubi
1491	73	12.9	232	2	Q9FVW9	Q9fvw9	arabidopsis
1492	73	12.9	266	2	Q8VS64	Q8vs64	lactobacill
1493	73	12.9	283	2	Q8K4V9	Q8k4v9	mus musculu
1494	73	12.9	416	2	Q7M048	Q7m048	rattus norv
1495	73	12.9	595	2	Q6ZRS5	Q6zrs5	homo sapien
1496	73	12.9	769	1	PIGR_RAT	P15083	rattus norv
1497	73	12.9	1021	2	P79757	P79757	gallus gall
1498	73	12.9	1178	2	Q7QHU2	Q7qhu2	anopheles g
1499	73	12.9	2224	2	Q9VV93	Q9vv93	drosophila
1500	72.5	12.9	91	2	Q9YHN0	Q9yhn0	ginglymosto

Search completed: April 7, 2005, 18:00:13
Job time : 115.338 secs

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OM protein - protein search, using sw model

Run on: April 7, 2005, 17:58:12 ; Search time 25.7143 Seconds
(without alignments)
404.110 Million cell updates/sec

Title: US-09-880-748-1_COPY_141_249
Perfect score: 564
Sequence: 1 LTQPASVSGSPGQSITISCT.....SYTTRSTRVFGGGTKLTVLG 108

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	515.5	91.4	112	2	S44105	Ig lambda chain V-
2	503.5	89.3	112	2	S44123	Ig lambda chain V-
3	499	88.5	111	2	S36281	Ig lambda chain V
4	497	88.1	111	1	L2HUNI	Ig lambda chain V-
5	496.5	88.0	112	1	L2HUNG	Ig lambda chain V-
6	496.5	88.0	112	2	S46395	Ig lambda chain V
7	495	87.8	111	2	S46396	Ig lambda chain V
8	494.5	87.7	112	2	S31515	Ig lambda chain V
9	491.5	87.1	110	2	S51149	antibody light cha
10	485	86.0	111	2	S19671	Ig lambda chain V
11	484	85.8	235	2	S25758	Ig lambda chain -
12	481	85.3	111	2	S36256	Ig lambda chain V
13	480	85.1	111	2	S46397	Ig lambda chain V
14	476	84.4	111	1	L2HUVL	Ig lambda chain V-
15	474	84.0	99	2	S36056	Ig lambda chain -
16	472	83.7	110	2	S57442	Ig lambda chain V-
17	471	83.5	235	2	S14675	Ig lambda chain -
18	469	83.2	111	2	S38497	Ig lambda chain -
19	469	83.2	136	2	S16848	Ig lambda chain V-
20	465	82.4	235	2	S25759	Ig lambda chain -
21	461	81.7	99	2	S36055	Ig lambda chain -
22	461	81.7	118	2	S04519	Ig lambda chain pr
23	460	81.6	111	1	L2HUTR	Ig lambda chain V-
24	459	81.4	111	1	L2HUMC	Ig lambda chain V-
25	456	80.9	111	1	L2HUBH	Ig lambda chain V-
26	448	79.4	111	1	L2HUBO	Ig lambda chain V-
27	447	79.3	111	1	L2HUTG	Ig lambda chain V-
28	445	78.9	110	2	S57412	Ig lambda chain V-
29	441	78.2	99	2	S36057	Ig lambda chain -
30	439	77.8	111	2	S19673	Ig lambda chain V
31	438	77.7	111	2	S38499	VL lambda protein
32	437	77.5	109	1	L2HUBR	Ig lambda chain V-
33	432	76.6	111	1	L2HUWN	Ig lambda chain V-
34	421	74.6	99	2	S36058	Ig lambda chain -
35	415	73.6	216	2	JE0245	Ig lambda chain NI
36	403.5	71.5	110	1	L2HU58	Ig lambda chain V-
37	399.5	70.8	103	2	A38923	AL type amyloid fi
38	397	70.4	111	2	S36263	Ig lambda chain V
39	389.5	69.1	112	2	S51148	antibody light cha
40	389	69.0	216	2	S29258	Ig lambda chain V
41	384	68.1	111	2	S47009	Ig lambda chain V1
42	381	67.6	235	2	S05270	Ig lambda chain pr
43	380	67.4	111	2	S36274	Ig lambda chain V
44	380	67.4	130	2	S78057	Ig lambda chain pr
45	379	67.2	129	2	S78058	Ig lambda chain pr
46	377.5	66.9	236	2	S25746	Ig lambda chain -
47	375	66.5	130	2	S09712	Ig lambda chain V
48	375	66.5	232	2	S25742	Ig lambda chain -
49	374	66.3	233	2	S25752	Ig lambda chain -
50	373	66.1	233	2	S25744	Ig lambda chain -
51	372	66.0	130	1	L1HUBL	Ig lambda chain pr
52	371	65.8	216	2	A42193	Ig lambda chain (B
53	370.5	65.7	213	2	S21066	Ig lambda chain V
54	370.5	65.7	217	2	JE0246	Ig lambda chain NI
55	368	65.2	112	2	B44151	Ig lambda chain V
56	368	65.2	113	2	A29700	Ig lambda chain V
57	367	65.1	111	1	L1HUNG	Ig lambda chain V-
58	366.5	65.0	112	1	L1HUHA	Ig lambda chain V-
59	366.5	65.0	149	2	S23626	Ig lambda chain V
60	366	64.9	216	2	S69130	Ig lambda chain (D
61	365	64.7	131	2	S24321	Ig lambda chain pr
62	364	64.5	111	2	S19664	Ig lambda chain V
63	364	64.5	112	2	C44151	Ig lambda chain V
64	364	64.5	234	2	S25757	Ig lambda chain -
65	364	64.5	235	2	S25750	Ig lambda chain -
66	363.5	64.5	235	2	S25754	Ig lambda chain -
67	361	64.0	112	2	D44151	Ig lambda chain V
68	361	64.0	112	2	A44151	Ig lambda chain V
69	360	63.8	109	1	L1HUWA	Ig lambda chain V-
70	355	62.9	103	1	L1HUNM	Ig lambda chain V-
71	355	62.9	106	1	L4HUML	Ig lambda chain V-
72	355	62.9	111	1	L6HUST	Ig lambda chain V-
73	355	62.9	111	2	S47185	Ig lambda chain -
74	353	62.6	216	2	S03401	Ig lambda chain (K
75	349	61.9	110	2	S57408	Ig lambda chain V-
76	349	61.9	231	2	S25738	Ig lambda chain -
77	348.5	61.8	120	2	S30525	Ig lambda chain V
78	348	61.7	111	1	L6HULT	Ig lambda chain V-
79	347	61.5	110	2	S57428	Ig light chain V-J
80	345	61.2	107	2	PC4283	anti-SS-A/Ro 60K p
81	345	61.2	111	1	L1HUNW	Ig lambda chain V-
82	345	61.2	111	1	L1HUVO	Ig lambda chain V-
83	345	61.2	208	2	B49444	Ig lambda chain (N
84	344.5	61.1	112	1	L6HUAR	Ig lambda chain V-
85	344.5	61.1	131	1	L6HUEB	Ig lambda chain pr
86	344	61.0	145	2	S25743	Ig lambda chain -
87	343	60.8	109	1	L1HUEP	Ig lambda chain V-
88	342	60.6	99	2	S36053	Ig lambda chain -
89	339	60.1	99	2	S36052	Ig lambda chain -
90	339	60.1	118	2	S12627	Ig lambda chain pr
91	338	59.9	106	1	L4HUBU	Ig lambda chain V-
92	337	59.8	99	2	S36051	Ig lambda chain -
93	334	59.2	151	2	S25739	Ig lambda chain -
94	333.5	59.1	107	2	B46516	Ig lambda chain V
95	333.5	59.1	112	1	L1HUMM	Ig lambda chain V-
96	333	59.0	119	2	S30526	Ig lambda chain V
97	332.5	59.0	140	2	PH0134	Ig lambda chain pr
98	331.5	58.8	98	2	S36048	Ig lambda chain -
99	331	58.7	105	2	S49533	anti-Sm antibody V
100	331	58.7	231	2	S25751	Ig lambda chain -
101	329.5	58.4	98	2	S36047	Ig lambda chain -
102	329.5	58.4	117	2	S23627	Ig lambda chain pr

103	329	58.3	132	2	S09713	Ig lambda chain V
104	328.5	58.2	98	2	S36050	Ig lambda chain -
105	328	58.2	99	2	S36054	Ig lambda chain -
106	327.5	58.1	98	2	S36068	Ig lambda chain -
107	327.5	58.1	110	2	S19672	Ig lambda chain V
108	327.5	58.1	117	2	S04525	Ig lambda chain pr
109	327.5	58.1	230	2	S49449	Ig lambda chain -
110	326.5	57.9	129	2	A30554	Ig lambda chain pr
111	323.5	57.4	95	2	S49571	Ig lambda chain pr
112	323.5	57.4	232	2	S25756	Ig lambda chain -
113	320	56.7	105	2	S44124	Ig lambda chain V
114	320	56.7	110	2	S36258	Ig lambda chain V
115	320	56.7	231	2	S25753	Ig lambda chain -
116	319	56.6	106	1	L4HUX	Ig lambda chain V-
117	319	56.6	109	2	S19663	Ig lambda chain V
118	318.5	56.5	113	2	E44151	Ig lambda chain V
119	317.5	56.3	212	2	S70431	Ig lambda chain -
120	317	56.2	107	1	L4HUHL	Ig lambda chain V-
121	316.5	56.1	110	2	S36272	Ig lambda chain V
122	316.5	56.1	112	1	L6HU48	Ig lambda chain V-
123	315	55.9	108	2	S38498	Ig lambda chain -
124	314.5	55.8	98	2	S36046	Ig lambda chain -
125	314	55.7	99	2	S36059	Ig lambda chain -
126	313	55.5	108	2	S47184	Ig lambda chain -
127	313	55.5	109	2	S38496	Ig lambda chain -
128	310	55.0	106	1	L4HUKN	Ig lambda chain V-
129	310	55.0	108	1	L3HUSH	Ig lambda chain V-
130	310	55.0	108	1	L5HUDL	Ig lambda chain V-
131	307	54.4	120	2	S30527	Ig lambda chain V
132	305	54.1	128	2	S24319	Ig lambda chain pr
133	305	54.1	213	2	A21177	Ig light chain pre
134	304	53.9	233	2	S25748	Ig lambda chain -
135	303.5	53.8	146	2	S02083	Ig lambda chain V-
136	302	53.5	127	2	S70444	Ig lambda chain pr
137	302	53.5	226	2	S25745	Ig lambda chain -
138	300	53.2	233	2	S25741	Ig lambda chain -
139	298	52.8	235	2	S25749	Ig lambda chain -
140	295.5	52.4	140	2	PH0132	Ig lambda chain pr
141	295	52.3	125	2	A31493	Ig light chain pre
142	295	52.3	233	2	S25747	Ig lambda chain -
143	294.5	52.2	95	2	S36065	Ig lambda chain -
144	294.5	52.2	114	2	S16440	Ig lambda chain -
145	290	51.4	120	2	S30528	Ig lambda chain V
146	290	51.4	136	2	S42610	ARMVlambda protein
147	288	51.1	110	2	S57465	Ig lambda chain V-
148	286	50.7	109	2	S68171	Ig lambda chain V
149	285.5	50.6	106	2	S38495	Ig lambda chain -
150	283.5	50.3	114	2	PH0133	Ig lambda chain V
151	282	50.0	60	2	A24626	Ig lambda chain V-
152	276.5	49.0	132	2	A55410	Ig light chain V r
153	271.5	48.1	96	2	S36060	Ig lambda chain -
154	271.5	48.1	115	2	S13726	Ig lambda chain V
155	269.5	47.8	113	1	L1CHV	Ig lambda chain pr
156	268	47.5	111	1	L7HUMT	Ig lambda chain V-
157	267.5	47.4	108	1	KVRB2K	Ig kappa chain V r
158	264.5	46.9	190	2	S25740	Ig lambda chain -
159	264	46.8	105	2	S26338	Ig kappa chain V r
160	263.5	46.7	108	2	G30560	Ig kappa chain V r
161	263.5	46.7	114	2	D46516	Ig lambda chain V
162	263	46.6	113	2	JC2270	PL7-6 antibody lig
163	262.5	46.5	129	1	K1HUWK	Ig kappa chain pre
164	262	46.5	110	2	S20635	Ig kappa chain V r
165	261.5	46.4	97	2	I51216	Ig light chain var
166	260.5	46.2	108	2	B49047	Ig kappa chain V r
167	260.5	46.2	131	2	S40352	Ig kappa chain V-J
168	260	46.1	108	2	B30608	Ig kappa chain V-I
169	260	46.1	215	2	JE0244	Ig kappa chain NIG
170	259.5	46.0	107	2	S36264	Ig lambda chain V
171	259	45.9	107	2	B30562	Ig kappa chain V r
172	259	45.9	107	2	PC4405	Ig kappa chain V r
173	258.5	45.8	108	2	S19674	Ig kappa chain V r
174	258	45.7	107	2	A30562	Ig kappa chain V r
175	258	45.7	133	1	K4HUJI	Ig kappa chain pre
176	257.5	45.7	214	2	S68212	Ig kappa chain (Ma
177	257	45.6	107	2	S36275	Ig lambda chain V
178	257	45.6	229	2	A20969	Ig kappa chain pre
179	256.5	45.5	110	2	E30607	Ig kappa chain V-I
180	256.5	45.5	112	2	S43103	Ig kappa chain V-J
181	256	45.4	109	2	A30608	Ig kappa chain V-I
182	256	45.4	130	2	A32513	Ig kappa chain pre
183	256	45.4	213	2	JE0247	Ig lambda chain NI
184	256	45.4	243	2	S25755	Ig lambda chain -
185	255.5	45.3	106	2	PC4282	Ig kappa chain (an
186	255.5	45.3	123	2	S40331	Ig kappa chain - h
187	254.5	45.1	112	2	S41393	Ig kappa chain V r
188	254.5	45.1	125	2	S40349	Ig kappa chain V-J
189	254.5	45.1	129	2	S52789	Ig kappa chain V r
190	254.5	45.1	133	2	PS0023	Ig kappa chain pre
191	254	45.0	99	2	S29585	Ig kappa chain V r
192	254	45.0	111	2	G30502	Ig kappa chain V r
193	254	45.0	120	2	A34871	Ig kappa chain V r
194	254	45.0	123	2	S05269	Ig kappa chain pre
195	254	45.0	128	2	S20636	Ig kappa chain V r
196	254	45.0	129	1	K3HUHA	Ig kappa chain pre
197	254	45.0	215	2	JE0242	Ig kappa chain NIG
198	253.5	44.9	109	2	S26336	Ig light chain V r
199	253.5	44.9	128	2	S46372	IG light chain var
200	253.5	44.9	129	2	S40317	Ig kappa chain - h
201	253	44.9	114	2	S54905	Ig kappa chain V r
202	253	44.9	130	2	S40360	Ig kappa chain - h
203	252.5	44.8	107	2	S36269	Ig lambda chain V
204	252.5	44.8	108	2	S36279	Ig lambda chain V
205	252.5	44.8	122	2	S40370	Ig kappa chain - h
206	252.5	44.8	129	2	S52792	Ig kappa chain V r
207	252.5	44.8	129	2	S40325	Ig kappa chain - h
208	252	44.7	109	2	G30601	Ig kappa chain V-I
209	252	44.7	124	2	S40336	Ig kappa chain V-J
210	252	44.7	132	2	S38646	Ig kappa chain V r
211	251.5	44.6	127	2	S40367	Ig kappa chain V-J
212	251	44.5	106	2	B54378	Ig light chain V r
213	251	44.5	109	1	K1HUMV	Ig kappa chain V-I
214	251	44.5	138	2	A53261	Ig kappa chain pre
215	250.5	44.4	108	2	H44151	Ig kappa chain V r
216	250.5	44.4	109	2	S31981	Ig kappa chain - h
217	250.5	44.4	114	2	S46375	Ig kappa chain V-J
218	250.5	44.4	233	2	S29577	Ig light chain - r
219	250	44.3	103	2	S29591	Ig kappa chain V r
220	250	44.3	104	2	B49049	Ig kappa chain V r
221	250	44.3	106	2	G27887	Ig kappa chain V r
222	250	44.3	109	2	D30601	Ig kappa chain V-I
223	250	44.3	113	2	S03410	Ig kappa chain pre
224	250	44.3	140	2	PL0013	Ig kappa chain pre
225	249.5	44.2	94	2	S26340	Ig light chain V r
226	249.5	44.2	108	1	K1HUAG	Ig kappa chain V-I
227	249.5	44.2	108	1	K1HURE	Ig kappa chain V-I
228	249.5	44.2	111	1	KVMS84	Ig kappa chain V r
229	249.5	44.2	112	2	S26655	Ig lambda chain V
230	249	44.1	106	2	S29583	Ig kappa chain V r
231	249	44.1	109	1	K3HUWL	Ig kappa chain V-I
232	249	44.1	109	2	G30607	Ig kappa chain V-I
233	249	44.1	124	2	S05267	Ig kappa chain pre
234	249	44.1	129	2	S49532	anti-Sm antibody V
235	249	44.1	130	1	JL0079	Ig kappa chain pre
236	249	44.1	131	2	S40328	Ig kappa chain - h
237	248.5	44.1	108	1	K1HUBN	Ig kappa chain V-I
238	248.5	44.1	113	2	S30520	Ig kappa chain V r
239	248.5	44.1	134	2	S21917	Ig kappa chain V r
240	248.5	44.1	135	2	S38807	Ig light chain V-J
241	248	44.0	124	2	S20633	Ig kappa chain - h
242	247.5	43.9	101	2	S44117	Ig kappa chain V-J
243	247.5	43.9	108	1	K1HUHU	Ig kappa chain V-I
244	247.5	43.9	108	2	E30609	Ig kappa chain V-I
245	247.5	43.9	108	2	S47182	Ig kappa chain - h
246	247.5	43.9	110	2	S44118	Ig kappa chain V-J
247	247.5	43.9	113	2	S34003	Ig kappa chain V r
248	247.5	43.9	132	2	S40334	Ig kappa chain - h

249	247	43.8	104	2	JC6076	anti-D-dimer monoc
250	247	43.8	132	2	S05268	Ig kappa chain pre
251	246.5	43.7	108	2	S38720	Ig light chain V r
252	246.5	43.7	112	2	S09970	Ig kappa chain V-J
253	246.5	43.7	144	2	PL0106	Ig kappa chain pre
254	246.5	43.7	220	2	A31790	Ig kappa chain V r
255	246	43.6	98	2	S36063	Ig lambda chain -
256	246	43.6	106	2	PS0070	Ig kappa chain V r
257	246	43.6	107	2	S11118	Ig kappa chain V r
258	246	43.6	108	2	PS0069	Ig kappa chain V r
259	246	43.6	109	2	H30601	Ig kappa chain V-I
260	246	43.6	109	2	S13699	Ig kappa chain V r
261	246	43.6	130	2	S04573	Ig kappa chain pre
262	246	43.6	215	2	A23746	Ig kappa chain V-I
263	245.5	43.5	109	2	S31998	Ig kappa chain - h
264	245.5	43.5	240	2	A41797	Ig light chain - s
265	245	43.4	102	2	S29588	Ig kappa chain V r
266	245	43.4	107	2	PT0398	Ig light chain V r
267	245	43.4	108	2	C30608	Ig kappa chain V-I
268	245	43.4	111	2	PN0537	Ig kappa chain V r
269	245	43.4	268	2	A56446	Ig heavy chain V r
270	244.5	43.4	90	2	S26339	Ig kappa chain V r
271	244.5	43.4	108	1	K1HUEU	Ig kappa chain V-I
272	244.5	43.4	111	1	KVMSC1	Ig kappa chain V r
273	244.5	43.4	112	2	E30538	Ig kappa chain V r
274	244.5	43.4	113	2	PT0407	Ig light chain V r
275	244	43.3	108	2	S30521	Ig kappa chain V r
276	244	43.3	109	2	C30601	Ig kappa chain V-I
277	244	43.3	117	1	K4RBF2	Ig kappa chain pre
278	244	43.3	121	2	S40371	Ig kappa chain - h
279	244	43.3	235	2	S25058	Ig kappa chain - m
280	243.5	43.2	101	2	S26337	Ig light chain V r
281	243.5	43.2	104	2	PH0964	Ig kappa chain V r
282	243.5	43.2	108	1	K1HUDE	Ig kappa chain V-I
283	243.5	43.2	108	2	G44151	Ig kappa chain V r
284	243.5	43.2	112	2	F30538	Ig kappa chain V r
285	243.5	43.2	114	1	K4HULN	Ig kappa chain V-I
286	243.5	43.2	117	2	S40362	Ig kappa chain - h
287	243.5	43.2	120	2	S51147	antibody light cha
288	243.5	43.2	129	2	S52793	Ig kappa chain V r
289	243	43.1	106	2	PS0071	Ig kappa chain V r
290	243	43.1	107	2	PH0965	Ig kappa chain V r
291	243	43.1	109	2	B30601	Ig kappa chain V-I
292	243	43.1	109	2	PH0963	Ig kappa chain V r
293	243	43.1	116	2	B26555	Ig kappa chain V-I
294	242.5	43.0	108	1	K1HURY	Ig kappa chain V-I
295	242.5	43.0	108	2	S19112	Ig kappa chain V r
296	242.5	43.0	113	2	S34002	Ig kappa chain V r
297	242.5	43.0	125	2	S40353	Ig kappa chain V-J
298	242.5	43.0	128	2	A56701	Ig kappa chain V r
299	242.5	43.0	132	2	S04937	Ig lambda chain pr
300	242.5	43.0	134	2	S49531	anti-Sm antibody V
301	242.5	43.0	240	2	S06084	Ig kappa chain pre
302	242	42.9	103	2	S13695	Ig kappa chain - m
303	242	42.9	109	1	K3HUGO	Ig kappa chain V-I
304	242	42.9	130	2	S20637	Ig kappa chain V r
305	241.5	42.8	107	2	B49026	Ig kappa chain V r
306	241.5	42.8	109	1	KVRB37	Ig kappa chain V r
307	241.5	42.8	113	2	S30523	Ig kappa chain V r
308	241.5	42.8	129	2	S29627	Ig kappa chain V r
309	241	42.7	100	2	S29590	Ig kappa chain V r
310	241	42.7	107	1	KVMSX4	Ig kappa chain V r
311	241	42.7	108	2	S33988	Ig kappa chain V r
312	241	42.7	109	2	F44151	Ig kappa chain V r
313	241	42.7	109	2	F30607	Ig kappa chain V-I
314	241	42.7	111	1	KVRB36	Ig kappa chain V r
315	241	42.7	135	2	S40342	Ig kappa chain - h
316	240.5	42.6	97	2	S26341	Ig light chain V r
317	240.5	42.6	105	2	S36266	Ig lambda chain V
318	240.5	42.6	107	2	S34005	Ig kappa chain V r
319	240.5	42.6	109	2	S38494	Ig lambda chain -
320	240.5	42.6	109	2	S31978	Ig kappa chain - h
321	240.5	42.6	111	2	D45722	anti-glycoprotein
322	240.5	42.6	120	2	S46370	Ig kappa chain V-J
323	240.5	42.6	127	2	S11240	Ig kappa chain V r
324	240.5	42.6	127	2	S04574	Ig kappa chain pre
325	240	42.6	107	2	S47183	Ig kappa chain - h
326	240	42.6	112	2	S58206	Ig light chain V r
327	240	42.6	120	2	S66536	Ig light chain V r
328	240	42.6	129	2	S46369	IG light chain var
329	240	42.6	134	2	S38643	Ig kappa chain V r
330	240	42.6	181	2	PT0220	Ig lambda chain V-
331	240	42.6	233	2	I51383	Ig lambda chain -
332	239.5	42.5	101	2	B37262	Ig kappa chain V r
333	239.5	42.5	107	2	S36268	Ig lambda chain V
334	239.5	42.5	107	2	S12954	Ig kappa chain V r
335	239.5	42.5	108	1	K1HUAU	Ig kappa chain V-I
336	239.5	42.5	108	1	KVRB12	Ig kappa chain V r
337	239.5	42.5	108	2	S31977	Ig kappa chain - h
338	239.5	42.5	112	2	S19971	Ig kappa chain V r
339	239.5	42.5	117	2	S46376	Ig kappa chain V-J
340	239.5	42.5	124	2	S40348	Ig kappa chain V-J
341	239.5	42.5	125	2	S40333	Ig kappa chain V-J
342	239.5	42.5	125	2	S40350	Ig kappa chain - h
343	239.5	42.5	131	2	PH1226	Ig kappa chain pre
344	239.5	42.5	132	2	PL0114	Ig lambda chain pr
345	239.5	42.5	139	2	S40365	Ig kappa chain - h
346	239	42.4	107	2	PT0400	Ig light chain V r
347	239	42.4	108	2	PL0277	Ig kappa chain V r
348	239	42.4	108	2	PL0276	Ig kappa chain V r
349	239	42.4	109	1	K3HUSI	Ig kappa chain V-I
350	239	42.4	109	2	F30601	Ig kappa chain V-I
351	239	42.4	125	2	S40356	Ig kappa chain - h
352	239	42.4	129	2	S40363	Ig kappa chain - h
353	238.5	42.3	107	2	S36262	Ig lambda chain V
354	238.5	42.3	107	2	I69017	anti-HIV1 envelope
355	238.5	42.3	107	2	S38713	Ig light chain V r
356	238.5	42.3	108	1	KVMS73	Ig kappa chain V r
357	238.5	42.3	110	2	S44120	Ig kappa chain V-J
358	238.5	42.3	113	2	PL0263	Ig kappa chain V r
359	238.5	42.3	117	2	S46371	Ig kappa chain V-J
360	238.5	42.3	128	2	S40345	Ig kappa chain V-J
361	238	42.2	107	2	PD0011	Ig kappa chain V r
362	238	42.2	107	2	PT0406	Ig kappa chain V r
363	238	42.2	108	1	K3HUB6	Ig kappa chain V-I
364	238	42.2	109	1	K3HUTI	Ig kappa chain V-I
365	238	42.2	117	2	S42263	Ig kappa chain V r
366	238	42.2	117	2	S43528	Ig kappa chain V r
367	238	42.2	145	2	PL0014	Ig kappa chain pre
368	237.5	42.1	110	1	K4RB27	Ig kappa chain V r
369	237.5	42.1	111	2	D37266	Ig kappa chain V r
370	237.5	42.1	112	2	PL0265	Ig kappa chain V r
371	237.5	42.1	114	2	S44116	Ig kappa chain V-J
372	237.5	42.1	118	2	PT0356	Ig kappa chain V r
373	237.5	42.1	134	1	K4HU17	Ig kappa chain pre
374	237.5	42.1	136	1	KVMS21	Ig kappa chain pre
375	237	42.0	95	2	PH0863	Ig kappa chain V r
376	237	42.0	99	2	PH1058	Ig light chain V r
377	237	42.0	107	2	S40366	Ig kappa chain V-J
378	237	42.0	107	2	PT0397	Ig light chain V r
379	237	42.0	108	2	PL0278	Ig kappa chain V r
380	237	42.0	132	2	S26882	Ig kappa chain V r
381	236.5	41.9	87	2	I52592	Ig kappa chain V r
382	236.5	41.9	88	2	S34087	Ig kappa chain V r
383	236.5	41.9	88	2	S34088	Ig kappa chain V r
384	236.5	41.9	106	2	PL0082	Ig kappa chain V r
385	236.5	41.9	107	2	A42848	Ig light chain V r
386	236.5	41.9	110	1	KVRB54	Ig kappa chain V r
387	236.5	41.9	111	2	S23628	Ig kappa chain V r
388	236	41.8	107	2	PT0401	Ig light chain V r
389	236	41.8	110	2	S60591	Ig light chain var
390	236	41.8	111	2	S24217	Ig kappa chain - m
391	236	41.8	117	2	S42466	Ig kappa chain V r
392	236	41.8	129	1	K3HUHI	Ig kappa chain pre
393	236	41.8	129	2	S40332	Ig kappa chain - h
394	236	41.8	129	2	A32274	Ig kappa chain pre

395	236	41.8	130	2	B32456	Ig kappa chain pre
396	235.5	41.8	88	2	S21525	Ig kappa chain V r
397	235.5	41.8	97	2	PH1085	Ig light chain V r
398	235.5	41.8	107	2	PT0395	Ig light chain V r
399	235.5	41.8	109	2	S31980	Ig kappa chain - h
400	235.5	41.8	109	2	S31979	Ig kappa chain - h
401	235.5	41.8	111	1	KVMS40	Ig kappa chain V r
402	235.5	41.8	125	2	S40344	Ig kappa chain V-J
403	235.5	41.8	129	2	B23986	Ig kappa chain pre
404	235.5	41.8	132	2	S46373	Ig kappa chain V-J
405	235.5	41.8	138	2	S26040	Ig kappa chain pre
406	235	41.7	95	2	PH0864	Ig kappa chain V r
407	235	41.7	106	2	PC2397	anti-tetanus toxin
408	235	41.7	107	2	PL0268	Ig kappa chain V r
409	235	41.7	108	2	S34007	Ig kappa chain V r
410	234.5	41.6	108	1	K1HULY	Ig kappa chain V-I
411	234.5	41.6	108	2	S44122	Ig kappa chain V r
412	234.5	41.6	108	2	E30535	Ig kappa chain V r
413	234.5	41.6	111	1	KVMS75	Ig kappa chain V r
414	234.5	41.6	113	2	PL0264	Ig kappa chain V r
415	234.5	41.6	116	2	B25521	Ig kappa chain pre
416	234.5	41.6	123	2	S40313	Ig kappa chain V-J
417	234.5	41.6	125	2	S40316	Ig kappa chain - h
418	234.5	41.6	129	2	S40347	Ig kappa chain - h
419	234	41.5	108	2	PH0092	Ig kappa chain V r
420	234	41.5	110	1	KVMS10	Ig kappa chain V r
421	234	41.5	238	2	A49633	Ig lambda-like cha
422	233.5	41.4	103	2	S44121	Ig kappa chain V-J
423	233.5	41.4	106	2	S26345	Ig light chain V r
424	233.5	41.4	108	1	KVRBB5	Ig kappa chain V r
425	233.5	41.4	108	4	B47271	nitrophenyl phosph
426	233.5	41.4	109	1	KVRB16	Ig kappa chain V r
427	233.5	41.4	111	1	KVMS08	Ig kappa chain V r
428	233.5	41.4	111	1	KVMS37	Ig kappa chain V r
429	233.5	41.4	111	1	KVMS43	Ig kappa chain V r
430	233.5	41.4	111	1	KVMS85	Ig kappa chain V r
431	233.5	41.4	111	2	A38740	Ig kappa chain V r
432	233.5	41.4	112	2	S19976	Ig kappa chain V r
433	233.5	41.4	116	2	A27594	Ig kappa chain pre
434	233.5	41.4	117	2	S24206	Ig kappa chain V r
435	233.5	41.4	124	2	S40364	Ig kappa chain - h
436	233.5	41.4	126	2	S40339	Ig kappa chain - h
437	233.5	41.4	210	2	A56169	Ig kappa chain V r
438	233	41.3	96	2	C33730	Ig kappa chain V r
439	233	41.3	105	2	A27585	Ig kappa chain V-I
440	233	41.3	106	2	S03303	Ig kappa chain V r
441	233	41.3	107	1	K1HUAR	Ig kappa chain V-I
442	233	41.3	107	2	PT0402	Ig light chain V r
443	233	41.3	112	2	S58207	Ig light chain V r
444	233	41.3	127	2	S40380	Ig kappa chain V-J
445	233	41.3	136	2	S40357	Ig kappa chain V-J
446	232.5	41.2	91	2	S17628	Ig kappa chain V r
447	232.5	41.2	99	2	D38601	Ig kappa chain V r
448	232.5	41.2	111	1	KVMS83	Ig kappa chain V r
449	232.5	41.2	111	2	PL0081	Ig kappa chain V r
450	232.5	41.2	114	2	S44119	Ig kappa chain V-J
451	232.5	41.2	115	2	S63596	Ig kappa chain V r
452	232.5	41.2	131	2	S40355	Ig kappa chain - h
453	232	41.1	87	2	S34084	Ig kappa chain V r
454	232	41.1	88	2	S21522	Ig kappa chain V r
455	232	41.1	95	2	PH0862	Ig kappa chain V r
456	232	41.1	101	2	S20810	Ig kappa chain V r
457	232	41.1	107	2	S11119	Ig kappa chain V r
458	232	41.1	121	2	S40327	Ig kappa chain - h
459	232	41.1	134	2	PC1214	Ig kappa chain pre
460	231.5	41.0	92	2	S37532	Ig kappa chain V r
461	231.5	41.0	106	2	PL0262	Ig kappa chain V r
462	231.5	41.0	108	1	KVRBB1	Ig kappa chain V r
463	231.5	41.0	108	2	PL0282	Ig kappa chain V r
464	231.5	41.0	111	2	E38740	Ig kappa chain V r
465	231.5	41.0	128	2	S40343	Ig kappa chain V-J
466	231.5	41.0	129	1	L1MS4E	Ig lambda-1 chain
467	231	41.0	102	2	S29582	Ig kappa chain V r
468	231	41.0	103	2	PH1054	Ig light chain V r
469	231	41.0	107	2	PT0403	Ig light chain V r
470	231	41.0	107	2	S69906	Ig kappa chain (cl
471	231	41.0	111	2	S03304	Ig kappa chain V r
472	231	41.0	113	2	A49260	antitumor monoclon
473	231	41.0	117	2	C21056	Ig kappa chain pre
474	231	41.0	125	2	S40315	Ig kappa chain - h
475	230.5	40.9	88	2	S21524	Ig kappa chain V r
476	230.5	40.9	91	2	S17626	Ig kappa chain V r
477	230.5	40.9	97	2	PH1084	Ig light chain V r
478	230.5	40.9	104	2	S13700	Ig kappa chain V r
479	230.5	40.9	109	2	S32001	Ig kappa chain - h
480	230.5	40.9	119	2	PQ0265	Ig kappa chain V r
481	230.5	40.9	129	1	K1HUDI	Ig kappa chain pre
482	230	40.8	108	1	K1HUKU	Ig kappa chain V-I
483	230	40.8	112	2	S53750	antibody Fab Jel 1
484	230	40.8	131	2	S40372	Ig kappa chain V-J
485	230	40.8	228	2	S29575	Ig light chain - r
486	229.5	40.7	99	2	PH1059	Ig light chain V r
487	229.5	40.7	106	2	B47329	Ig kappa chain V r
488	229.5	40.7	107	2	S26344	Ig kappa chain V r
489	229.5	40.7	107	2	G30535	Ig kappa chain V r
490	229.5	40.7	108	1	K1HUGL	Ig kappa chain V-I
491	229.5	40.7	110	1	KVRB29	Ig kappa chain V r
492	229.5	40.7	113	2	PT0408	Ig light chain V r
493	229.5	40.7	125	2	S04936	Ig kappa chain pre
494	229.5	40.7	127	2	S52447	Ig kappa chain V r
495	229.5	40.7	128	2	S31488	Ig kappa chain pre
496	229.5	40.7	129	2	S40329	Ig kappa chain V-J
497	229.5	40.7	129	2	S40369	Ig kappa chain - h
498	229.5	40.7	130	2	PL0113	Ig kappa chain pre
499	229.5	40.7	131	1	KVMSM6	Ig kappa chain pre
500	229.5	40.7	230	2	S33161	Ig kappa chain - s
501	229	40.6	91	2	S17630	Ig kappa chain V r
502	229	40.6	101	2	PH0869	Ig kappa chain V r
503	229	40.6	114	2	S46377	Ig kappa chain V-J
504	229	40.6	117	1	K1HU12	Ig kappa chain pre
505	229	40.6	128	2	A47159	Ig lambda chain V
506	229	40.6	131	2	D29380	Ig kappa chain pre
507	228.5	40.5	91	2	S17638	Ig kappa chain V r
508	228.5	40.5	92	2	S37502	Ig kappa chain V r
509	228.5	40.5	98	2	S19974	Ig kappa chain V r
510	228.5	40.5	103	2	H30502	Ig kappa chain V r
511	228.5	40.5	107	2	B30535	Ig kappa chain V r
512	228.5	40.5	108	1	K1HUWS	Ig kappa chain V-I
513	228.5	40.5	108	2	C26405	Ig kappa chain V r
514	228.5	40.5	108	2	B26405	Ig kappa chain V r
515	228.5	40.5	109	2	JN0296	Ig kappa chain V-J
516	228.5	40.5	111	2	C38740	Ig kappa chain V r
517	228.5	40.5	135	2	S24320	Ig kappa chain pre
518	228	40.4	87	2	S34083	Ig kappa chain V r
519	228	40.4	88	2	S21528	Ig kappa chain V r
520	228	40.4	96	2	G38601	Ig kappa chain V r
521	228	40.4	98	2	S41813	Ig kappa chain V r
522	228	40.4	100	2	H38601	Ig kappa chain V r
523	228	40.4	108	2	S38862	Ig kappa chain V r
524	228	40.4	109	2	S47181	Ig kappa chain - h
525	228	40.4	123	2	S40354	Ig kappa chain - h
526	228	40.4	127	2	A23986	Ig kappa chain pre
527	228	40.4	129	1	KVMS7B	Ig kappa chain pre
528	228	40.4	131	2	S09259	Ig kappa chain pre
529	228	40.4	145	2	S20631	Ig kappa chain - h
530	227.5	40.3	95	2	D33730	Ig kappa chain V r
531	227.5	40.3	107	2	S24290	Ig kappa chain V r
532	227.5	40.3	107	2	S33132	Ig kappa chain V r
533	227.5	40.3	110	2	PN0535	Ig kappa chain V r
534	227.5	40.3	114	2	PT0358	Ig kappa chain V r
535	227.5	40.3	124	2	S40318	Ig kappa chain V r
536	227.5	40.3	126	2	S40335	Ig kappa chain V-J
537	227.5	40.3	141	2	A49134	Ig kappa chain V-I
538	227.5	40.3	149	1	KVMS11	Ig kappa chain pre
539	227.5	40.3	234	2	S14237	Ig kappa chain pre
540	227.5	40.3	235	2	S20000	Ig light chain pre

541	227	40.2	86	2	S34086	Ig kappa chain V r
542	227	40.2	98	2	I30608	Ig kappa chain V-I
543	227	40.2	107	2	S69901	Ig kappa chain (cl
544	227	40.2	107	2	S11113	Ig kappa chain V r
545	227	40.2	108	1	K1HUOU	Ig kappa chain V-I
546	227	40.2	108	2	B44371	Ig kappa chain V r
547	227	40.2	112	2	F27887	Ig kappa chain V r
548	227	40.2	117	1	K2HUGM	Ig kappa chain pre
549	227	40.2	117	2	S11700	Ig kappa chain pre
550	227	40.2	121	1	K4HU	Ig kappa chain pre
551	226.5	40.2	92	2	S37535	Ig kappa chain V r
552	226.5	40.2	98	2	PH1061	Ig light chain V r
553	226.5	40.2	104	2	PH1101	Ig light chain V r
554	226.5	40.2	104	2	PH1102	Ig light chain V r
555	226.5	40.2	106	2	PL0259	Ig kappa chain V r
556	226.5	40.2	107	2	S57444	Ig kappa chain V-J
557	226.5	40.2	107	2	F30535	Ig kappa chain V r
558	226.5	40.2	108	2	S36277	Ig lambda chain V
559	226.5	40.2	111	1	KVMS50	Ig kappa chain V r
560	226.5	40.2	111	1	KVMS69	Ig kappa chain V r
561	226.5	40.2	112	2	S45715	Ig kappa chain V r
562	226.5	40.2	112	2	S19972	Ig kappa chain V r
563	226.5	40.2	125	2	S09365	Ig kappa chain - m
564	226.5	40.2	128	1	K3HU41	Ig kappa chain pre
565	226.5	40.2	130	2	C29380	Ig kappa chain pre
566	226.5	40.2	214	2	PC4156	Ig lambda chain V
567	226	40.1	99	2	S51210	Ig kappa chain V r
568	226	40.1	103	2	PH1050	Ig light chain V r
569	226	40.1	104	2	S26329	Ig kappa chain V r
570	226	40.1	112	2	A27887	Ig kappa chain V r
571	226	40.1	117	2	S21527	Ig kappa chain pre
572	226	40.1	129	2	D32513	Ig kappa chain pre
573	225.5	40.0	91	2	S17639	Ig kappa chain V r
574	225.5	40.0	107	1	K4RB41	Ig kappa chain V r
575	225.5	40.0	108	1	K1HUKA	Ig kappa chain V-I
576	225.5	40.0	108	1	KVMSAR	Ig kappa chain V r
577	225.5	40.0	108	2	I39154	Ig kappa chain (BR
578	225.5	40.0	108	2	B30551	Ig kappa chain V r
579	225.5	40.0	111	1	KVMS80	Ig kappa chain V r
580	225.5	40.0	111	2	S09963	Ig kappa chain V-J
581	225.5	40.0	122	2	S40314	Ig kappa chain - h
582	225.5	40.0	128	2	S40379	Ig kappa chain V-J
583	225	39.9	104	2	S26330	Ig kappa chain V r
584	225	39.9	107	2	S11112	Ig kappa chain V r
585	225	39.9	107	2	S11121	Ig kappa chain V r
586	225	39.9	109	1	K3HUPM	Ig kappa chain V-I
587	225	39.9	112	2	E26317	Ig kappa chain V r
588	225	39.9	112	2	B26317	Ig kappa chain V r
589	225	39.9	117	2	S41812	Ig kappa chain V r
590	225	39.9	120	2	S46374	Ig kappa chain V-J
591	225	39.9	134	2	S11245	Ig kappa chain pre
592	224.5	39.8	93	2	S17636	Ig kappa chain V r
593	224.5	39.8	96	2	A30601	Ig kappa chain V-I
594	224.5	39.8	99	2	C46518	Ig L1 chain V regi
595	224.5	39.8	104	2	PH1103	Ig light chain V r
596	224.5	39.8	107	2	B28044	Ig kappa chain V r
597	224.5	39.8	108	1	K1HUWE	Ig kappa chain V-I
598	224.5	39.8	112	2	S06818	Ig lambda chain V
599	224.5	39.8	116	2	B27594	Ig kappa chain pre
600	224.5	39.8	126	2	A34904	Ig kappa chain pre
601	224.5	39.8	131	2	S55027	Ig light chain pre
602	224	39.7	107	1	KVMSJ5	Ig kappa chain V r
603	224	39.7	107	2	S32192	Ig kappa chain V r
604	224	39.7	108	1	KVMS54	Ig kappa chain V r
605	224	39.7	115	1	K3HUVG	Ig kappa chain pre
606	223.5	39.6	92	2	S37517	Ig kappa chain V r
607	223.5	39.6	93	2	S17633	Ig kappa chain V r
608	223.5	39.6	96	2	S45441	Ig kappa chain V r
609	223.5	39.6	104	2	PH1053	Ig light chain V r
610	223.5	39.6	106	2	PL0260	Ig kappa chain V r
611	223.5	39.6	108	1	KVMSAA	Ig kappa chain V r
612	223.5	39.6	108	2	S19970	Ig kappa chain V r
613	223.5	39.6	109	2	PH0093	Ig kappa chain V r
614	223.5	39.6	111	2	S09969	Ig kappa chain V-J
615	223.5	39.6	115	2	A30553	Ig kappa chain pre
616	223.5	39.6	116	2	C27594	Ig kappa chain pre
617	223.5	39.6	119	2	S41816	Ig kappa chain V r
618	223.5	39.6	127	2	PH1224	Ig kappa chain pre
619	223.5	39.6	128	1	KVMST1	Ig kappa chain pre
620	223.5	39.6	130	1	KVMSM4	Ig kappa chain pre
621	223.5	39.6	130	2	S40368	Ig kappa chain - h
622	223	39.5	101	2	PH1046	Ig light chain V r
623	223	39.5	103	2	PH1047	Ig light chain V r
624	223	39.5	105	2	B27585	Ig kappa chain V-I
625	223	39.5	105	2	C30535	Ig kappa chain V r
626	223	39.5	108	2	PS0073	Ig kappa chain V r
627	223	39.5	112	2	E27887	Ig kappa chain V r
628	223	39.5	115	2	S38715	Ig kappa chain V r
629	223	39.5	118	2	PT0359	Ig kappa chain V r
630	223	39.5	120	2	G33932	Ig kappa chain pre
631	223	39.5	131	2	B34904	Ig kappa chain pre
632	223	39.5	219	2	PC4203	Ig kappa chain (mo
633	222.5	39.5	93	2	S17643	Ig kappa chain V r
634	222.5	39.5	95	2	PH0866	Ig kappa chain V r
635	222.5	39.5	100	1	K3HUNG	Ig kappa chain pre
636	222.5	39.5	103	2	S13698	Ig heavy chain V r
637	222.5	39.5	107	2	JL0139	Ig kappa chain V r
638	222.5	39.5	107	2	S26343	Ig kappa chain V r
639	222.5	39.5	107	2	D30535	Ig kappa chain V r
640	222.5	39.5	108	1	K1HUBI	Ig kappa chain V-I
641	222.5	39.5	108	2	S40330	Ig kappa chain V-J
642	222.5	39.5	108	2	S69900	Ig kappa chain (cl
643	222.5	39.5	108	2	S69903	Ig kappa chain (cl
644	222.5	39.5	111	2	G38740	Ig kappa chain V r
645	222.5	39.5	113	2	B54256	Ig lambda-1 chain
646	222.5	39.5	115	1	KVRB31	Ig kappa chain V r
647	222.5	39.5	115	2	JL0080	Ig kappa chain pre
648	222.5	39.5	116	2	S41817	Ig kappa chain V r
649	222.5	39.5	117	2	S10227	Ig kappa chain pre
650	222.5	39.5	127	2	S04577	Ig kappa chain pre
651	222	39.4	93	2	S17632	Ig kappa chain V r
652	222	39.4	102	2	S13697	Ig heavy chain V r
653	222	39.4	107	2	A28195	Ig kappa chain V r
654	222	39.4	107	2	S11117	Ig kappa chain V r
655	222	39.4	110	2	S40326	Ig kappa chain V-J
656	222	39.4	112	2	A26317	Ig kappa chain V r
657	222	39.4	112	2	B49060	Ig light chain V r
658	222	39.4	115	2	S60066	Ig kappa chain V r
659	222	39.4	117	2	S42264	Ig kappa chain V r
660	222	39.4	117	2	S41814	Ig kappa chain V r
661	222	39.4	130	2	S08079	Ig kappa chain pre
662	221.5	39.3	91	2	S67940	Ig kappa chain V r
663	221.5	39.3	104	2	PH1104	Ig light chain V r
664	221.5	39.3	107	2	A28044	Ig kappa chain V r
665	221.5	39.3	107	2	D48677	Ig kappa chain V-J
666	221.5	39.3	107	2	A48677	Ig kappa chain V-J
667	221.5	39.3	107	2	PT0399	Ig light chain V r
668	221.5	39.3	112	2	S32189	Ig kappa chain V r
669	221.5	39.3	113	2	S06819	Ig lambda chain V
670	221.5	39.3	128	2	A26406	Ig kappa chain V r
671	221.5	39.3	136	2	A49137	Ig kappa chain pre
672	221.5	39.3	140	2	S22658	Ig kappa chain pre
673	221.5	39.3	234	2	S01320	Ig kappa chain pre
674	221	39.2	89	2	S34096	Ig kappa chain V r
675	221	39.2	96	2	PH1070	Ig light chain V r
676	221	39.2	103	2	PH1051	Ig light chain V r
677	221	39.2	103	2	PH1052	Ig light chain V r
678	221	39.2	104	2	F38601	Ig kappa chain V r
679	221	39.2	106	2	C33936	Ig kappa chain V r
680	221	39.2	108	1	KVMS06	Ig kappa chain V r
681	221	39.2	108	2	PL0204	anti-DNA autoantib
682	221	39.2	109	2	PT0405	Ig light chain V r
683	221	39.2	112	2	A49715	Ig kappa chain V r
684	221	39.2	112	2	F26317	Ig kappa chain V r
685	221	39.2	112	2	G26317	Ig kappa chain V r
686	221	39.2	113	1	KVMS26	Ig kappa chain V r

687	221	39.2	114	1	KVRBAH	Ig kappa chain V r
688	221	39.2	115	2	S11697	Ig kappa chain pre
689	221	39.2	132	2	PH0106	anti-digoxin trans
690	220.5	39.1	88	2	S21520	Ig kappa chain V r
691	220.5	39.1	92	2	S37510	Ig kappa chain V r
692	220.5	39.1	92	2	S37530	Ig kappa chain V r
693	220.5	39.1	101	2	S13696	Ig heavy chain V r
694	220.5	39.1	102	2	PH1076	Ig light chain V r
695	220.5	39.1	106	2	S11114	Ig kappa chain V r
696	220.5	39.1	109	2	S31983	Ig kappa chain - h
697	220.5	39.1	111	2	S40359	Ig kappa chain V-J
698	220.5	39.1	117	1	LVHU2	Ig lambda chain pr
699	220.5	39.1	117	2	S04526	Ig lambda chain pr
700	220.5	39.1	131	2	S40346	Ig kappa chain V-J
701	220.5	39.1	134	2	S40376	Ig kappa chain - h
702	220.5	39.1	218	2	JC5810	monoclonal antibod
703	220	39.0	88	2	S34104	Ig kappa chain V r
704	220	39.0	91	2	S17629	Ig kappa chain V r
705	220	39.0	93	2	S17640	Ig kappa chain V r
706	220	39.0	107	2	PT0396	Ig light chain V r
707	220	39.0	112	2	B27887	Ig kappa chain V r
708	220	39.0	112	2	B31485	Ig kappa chain V r
709	219.5	38.9	87	2	S21523	Ig kappa chain V r
710	219.5	38.9	92	2	S37523	Ig kappa chain V r
711	219.5	38.9	92	2	S37531	Ig kappa chain V r
712	219.5	38.9	92	2	S37529	Ig kappa chain V r
713	219.5	38.9	92	2	S37519	Ig kappa chain V r
714	219.5	38.9	93	2	S17635	Ig kappa chain V r
715	219.5	38.9	107	2	B48677	Ig kappa chain V-J
716	219.5	38.9	108	1	K1HUSW	Ig kappa chain V-I
717	219.5	38.9	111	1	KVMS13	Ig kappa chain V r
718	219.5	38.9	113	2	S06821	Ig lambda chain V
719	219.5	38.9	123	2	S40378	Ig kappa chain - h
720	219	38.8	86	2	S16840	Ig kappa chain V r
721	219	38.8	91	2	S17637	Ig kappa chain V r
722	219	38.8	93	2	S17624	Ig kappa chain V r
723	219	38.8	95	2	PH0865	Ig kappa chain V r
724	219	38.8	103	2	S18731	Ig kappa chain V-J
725	219	38.8	107	2	S32191	Ig kappa chain V r
726	219	38.8	108	1	KVMS82	Ig kappa chain V r
727	219	38.8	108	2	S29581	Ig kappa chain V r
728	219	38.8	110	2	S24288	Ig kappa chain V r
729	219	38.8	115	1	K3HUCL	Ig kappa chain pre
730	219	38.8	131	2	C34904	Ig kappa chain pre
731	219	38.8	219	2	S38865	Ig kappa chain - m
732	218.5	38.7	92	2	S37509	Ig kappa chain V r
733	218.5	38.7	92	2	S37524	Ig kappa chain V r
734	218.5	38.7	93	2	S17634	Ig kappa chain V r
735	218.5	38.7	95	2	PH0867	Ig kappa chain V r
736	218.5	38.7	106	2	PS0072	Ig kappa chain V r
737	218.5	38.7	128	2	PL0101	Ig kappa chain pre
738	218	38.7	90	2	I38601	Ig kappa chain V r
739	218	38.7	99	2	PH1060	Ig light chain V r
740	218	38.7	108	1	KVMS61	Ig kappa chain V r
741	218	38.7	128	2	S40373	Ig kappa chain - h
742	218	38.7	225	2	S37484	Ig kappa chain - m
743	217.5	38.6	92	2	S37533	Ig kappa chain V r
744	217.5	38.6	92	2	S37507	Ig kappa chain V r
745	217.5	38.6	111	2	B37266	Ig kappa chain V r
746	217.5	38.6	112	1	K2HUML	Ig kappa chain V-I
747	217.5	38.6	122	2	A29380	Ig kappa chain pre
748	217.5	38.6	125	2	S20634	Ig kappa chain V r
749	217.5	38.6	128	2	S52450	Ig lambda chain V
750	217.5	38.6	218	2	S68241	Ig kappa chain V r
751	217.5	38.6	287	4	PC4402	pelB leader/Ig hea
752	217	38.5	91	2	S17627	Ig kappa chain V r
753	217	38.5	93	2	S37526	Ig kappa chain V r
754	217	38.5	93	2	S17642	Ig kappa chain V r
755	217	38.5	107	2	B28195	Ig kappa chain V r
756	217	38.5	110	2	S26335	Ig kappa chain V r
757	217	38.5	111	2	PL0257	Ig kappa chain V r
758	217	38.5	112	2	H26317	Ig kappa chain V r
759	217	38.5	112	2	C27887	Ig kappa chain V r
760	217	38.5	115	2	B46518	Ig L1 chain V regi
761	217	38.5	117	2	S41809	Ig kappa chain V r
762	217	38.5	117	2	B21056	Ig kappa chain pre
763	217	38.5	131	2	B32513	Ig kappa chain pre
764	216.5	38.4	92	2	S37513	Ig kappa chain V r
765	216.5	38.4	93	2	S17631	Ig kappa chain V r
766	216.5	38.4	100	2	S24681	Ig kappa chain - h
767	216.5	38.4	108	2	PL0083	Ig kappa chain V r
768	216.5	38.4	111	2	B53285	Ig kappa chain V a
769	216.5	38.4	111	2	I38740	Ig kappa chain V r
770	216.5	38.4	114	2	S49572	Ig kappa chain pre
771	216.5	38.4	215	2	JE0243	Ig kappa chain NIG
772	216	38.3	102	2	S24214	Ig kappa chain - m
773	216	38.3	104	2	S29592	Ig kappa chain V r
774	216	38.3	108	2	S11125	Ig kappa chain V r
775	216	38.3	112	2	PL0274	Ig kappa chain V r
776	216	38.3	113	1	K2HUTW	Ig kappa chain V-I
777	216	38.3	113	2	H30560	Ig kappa chain V r
778	216	38.3	114	2	B32967	Ig kappa chain V-I
779	216	38.3	132	2	S40322	Ig kappa chain - h
780	216	38.3	233	2	JC5322	p53 specific singl
781	215.5	38.2	92	2	S37534	Ig kappa chain V r
782	215.5	38.2	92	2	S37516	Ig kappa chain V r
783	215.5	38.2	108	2	C30502	Ig kappa chain V r
784	215.5	38.2	108	2	S69902	Ig kappa chain (cl
785	215.5	38.2	111	2	S09965	Ig kappa chain V-J
786	215.5	38.2	112	1	K1HUNY	Ig kappa chain V-I
787	215.5	38.2	114	2	S06822	Ig lambda chain V
788	215.5	38.2	129	2	S32806	Ig kappa chain pre
789	215.5	38.2	225	2	I51335	Ig lambda chain -
790	215	38.1	91	2	S37520	Ig kappa chain V r
791	215	38.1	93	2	S37501	Ig kappa chain V r
792	215	38.1	93	2	S37528	Ig kappa chain V r
793	215	38.1	94	2	S20653	Ig heavy chain V r
794	215	38.1	108	2	S40377	Ig kappa chain - h
795	215	38.1	112	2	PL0275	Ig kappa chain V r
796	215	38.1	112	2	A31807	Ig kappa chain V r
797	215	38.1	113	1	KVMS7S	Ig kappa chain V r
798	215	38.1	113	2	B41940	Ig light chain V r
799	215	38.1	117	1	K1HU11	Ig kappa chain pre
800	215	38.1	122	2	S40338	Ig kappa chain - h
801	215	38.1	131	2	B30577	Ig kappa chain pre
802	215	38.1	152	2	S30751	Ig kappa chain pre
803	214.5	38.0	82	2	S34090	Ig kappa chain V r
804	214.5	38.0	86	2	S16832	Ig kappa chain V r
805	214.5	38.0	92	2	S37514	Ig kappa chain V r
806	214.5	38.0	106	2	A49138	IgA kappa rheumato
807	214.5	38.0	107	2	C48677	Ig light chain V-J
808	214.5	38.0	107	2	S09964	Ig kappa chain V-J
809	214.5	38.0	132	1	KVMS32	Ig kappa chain pre
810	214	37.9	93	2	S37508	Ig kappa chain V r
811	214	37.9	93	2	S37505	Ig kappa chain V r
812	214	37.9	93	2	S17623	Ig kappa chain V r
813	214	37.9	94	2	S20650	Ig heavy chain V r
814	214	37.9	95	2	S45324	Ig kappa chain V r
815	214	37.9	95	2	PH0868	Ig kappa chain V r
816	214	37.9	98	2	S36062	Ig lambda chain -
817	214	37.9	112	2	C26317	Ig kappa chain V r
818	214	37.9	112	2	D27887	Ig kappa chain V r
819	214	37.9	114	2	B49002	Ig kappa chain V r
820	214	37.9	117	2	S41810	Ig kappa chain V r
821	214	37.9	119	2	S08077	Ig kappa chain pre
822	214	37.9	122	2	S40351	Ig kappa chain V-J
823	214	37.9	131	2	D34904	Ig kappa chain pre
824	214	37.9	131	2	PT0178	Ig kappa chain pre
825	213.5	37.9	86	2	S16837	Ig kappa chain V r
826	213.5	37.9	93	2	S17641	Ig kappa chain V r
827	213.5	37.9	116	1	K3HUVH	Ig kappa chain pre
828	213.5	37.9	123	2	S40319	Ig kappa chain V r
829	213.5	37.9	140	2	PN0446	Ig kappa chain pre
830	213	37.8	103	2	S26332	Ig light chain V r
831	213	37.8	115	2	S10146	Ig kappa chain pre
832	213	37.8	117	2	S24207	Ig kappa chain V r

833	213	37.8	118	2	T03036	Ig light chain - h
834	213	37.8	124	2	S03876	Ig kappa chain V-I
835	213	37.8	131	2	B39276	Ig light chain pre
836	213	37.8	132	2	C32513	Ig kappa chain pre
837	213	37.8	249	2	S41374	single chain Fv an
838	212.5	37.7	86	2	S16826	Ig kappa chain V r
839	212.5	37.7	94	2	PL0258	Ig kappa chain V r
840	212.5	37.7	105	2	PH0087	Ig kappa chain V r
841	212.5	37.7	108	1	KVMS49	Ig kappa chain V r
842	212.5	37.7	128	2	PN0445	Ig kappa chain pre
843	212.5	37.7	129	1	L2MS35	Ig lambda-2 chain
844	212	37.6	94	2	S20648	Ig heavy chain V r
845	212	37.6	107	2	S09968	Ig kappa chain V-J
846	212	37.6	109	2	PT0404	Ig light chain V r
847	212	37.6	118	2	S40374	Ig kappa chain - h
848	212	37.6	131	2	G34903	Ig kappa chain pre
849	212	37.6	133	2	A28565	Ig lambda chain pr
850	212	37.6	197	2	S29593	Ig kappa chain (WM
851	212	37.6	225	2	JL0029	Ig kappa chain pre
852	211.5	37.5	86	2	S16828	Ig kappa chain V r
853	211.5	37.5	96	2	S40320	Ig kappa chain - h
854	211.5	37.5	109	2	PH0888	Ig kappa chain V r
855	211.5	37.5	114	2	PL0202	anti-DNA autoantib
856	211	37.4	87	2	S78490	Ig kappa chain V r
857	211	37.4	91	2	S37525	Ig kappa chain V r
858	211	37.4	102	2	S29584	Ig kappa chain V r
859	211	37.4	106	2	S11120	Ig kappa chain V r
860	211	37.4	109	1	KVRT21	Ig kappa chain V r
861	211	37.4	112	2	I26317	Ig kappa chain V r
862	211	37.4	118	2	I33932	Ig kappa chain pre
863	211	37.4	133	2	S42611	HUNVK protein prec
864	211	37.4	219	2	S52028	Ig kappa chain - m
865	210.5	37.3	87	2	S34098	Ig kappa chain V r
866	210.5	37.3	92	2	S37504	Ig kappa chain V r
867	210.5	37.3	92	2	S37512	Ig kappa chain V r
868	210.5	37.3	92	2	S37522	Ig kappa chain V r
869	210.5	37.3	92	2	S38622	Ig kappa chain V r
870	210.5	37.3	97	2	A42575	Ig kappa chain V r
871	210.5	37.3	103	2	S13703	Ig kappa chain V r
872	210.5	37.3	113	2	F30534	Ig kappa chain V r
873	210.5	37.3	232	2	S17399	Ig lambda chain pr
874	210	37.2	87	2	S34091	Ig kappa chain V r
875	210	37.2	95	2	S69898	Ig kappa chain V r
876	210	37.2	107	2	S11116	Ig kappa chain V r
877	210	37.2	108	1	KVMS09	Ig kappa chain V r
878	210	37.2	115	1	KVMSL6	Ig kappa chain pre
879	210	37.2	118	2	A32529	Ig lambda chain pr
880	210	37.2	131	2	S52449	Ig kappa chain V r
881	210	37.2	131	2	PL0207	anti-idiotypic ant
882	210	37.2	133	1	K2HURP	Ig kappa chain pre
883	209.5	37.1	86	2	S16833	Ig kappa chain V-I
884	209.5	37.1	92	2	S37506	Ig kappa chain V r
885	209.5	37.1	102	2	PC6027	acetylcoline recep
886	209.5	37.1	115	1	K2HUCM	Ig kappa chain V-I
887	209.5	37.1	130	2	S40321	Ig kappa chain - h
888	209	37.1	91	2	S37527	Ig kappa chain V r
889	209	37.1	92	1	KVRB38	Ig kappa chain V r
890	209	37.1	93	2	S17625	Ig kappa chain V r
891	209	37.1	95	2	S26333	Ig kappa chain V r
892	209	37.1	107	2	S11123	Ig kappa chain V r
893	209	37.1	115	1	KVMSK2	Ig kappa chain pre
894	209	37.1	120	2	S21667	Ig kappa chain V r
895	209	37.1	131	2	S31577	Ig kappa chain - m
896	209	37.1	133	2	S40324	Ig kappa chain V r
897	208.5	37.0	98	2	PH1066	Ig light chain V r
898	208.5	37.0	104	2	S26475	Ig kappa chain V r
899	208.5	37.0	106	2	S20652	Ig kappa chain V r
900	208.5	37.0	116	2	I51338	Ig lambda chain C
901	208	36.9	98	2	PH1069	Ig light chain V r
902	208	36.9	98	2	PH1083	Ig light chain V r
903	208	36.9	111	2	S15673	Ig kappa chain V r
904	208	36.9	112	2	D26317	Ig kappa chain V r
905	208	36.9	112	2	S38719	Ig light chain V r
906	208	36.9	113	2	F30560	Ig kappa chain V r
907	208	36.9	117	2	S21668	Ig kappa chain V r
908	208	36.9	126	2	S40312	Ig kappa chain - h
909	207.5	36.8	84	2	S34099	Ig kappa chain V r
910	207.5	36.8	100	2	S26334	Ig light chain V r
911	207.5	36.8	107	2	PL0080	Ig kappa chain V r
912	207.5	36.8	112	2	D28195	Ig kappa chain V r
913	207.5	36.8	114	2	S40375	Ig kappa chain - h
914	207	36.7	87	2	S16843	Ig kappa chain V r
915	207	36.7	91	2	S37521	Ig kappa chain V r
916	207	36.7	111	2	S09966	Ig kappa chain V-J
917	207	36.7	113	2	E30560	Ig kappa chain V r
918	207	36.7	114	2	A32967	Ig kappa chain V-I
919	207	36.7	114	2	A34353	anti-peptide Fab'
920	207	36.7	114	2	S06820	Ig lambda chain V
921	207	36.7	142	2	S22902	Ig kappa chain V r
922	207	36.7	217	2	S42772	Ig kappa chain - m
923	206.5	36.6	108	2	S11124	Ig kappa chain V r
924	206.5	36.6	114	1	KVMS7A	Ig kappa chain V r
925	206.5	36.6	120	2	A49043	Ig kappa chain V r
926	206	36.5	102	2	B34153	Ig kappa chain V-I
927	206	36.5	107	2	D32530	Ig kappa chain V r
928	206	36.5	112	2	H28840	Ig kappa chain V r
929	206	36.5	113	2	PL0203	anti-DNA autoantib
930	206	36.5	133	2	S23230	Ig kappa chain pre
931	205.5	36.4	86	2	S16830	Ig kappa chain V r
932	205.5	36.4	86	2	S20651	Ig heavy chain V r
933	205.5	36.4	98	2	S40361	Ig kappa chain V-J
934	205.5	36.4	98	2	PH1067	Ig light chain V r
935	205.5	36.4	107	2	S32188	Ig kappa chain V r
936	205.5	36.4	107	2	PL0270	Ig kappa chain V r
937	205.5	36.4	133	1	A24452	Ig kappa chain pre
938	205	36.3	113	2	PL0205	anti-DNA autoantib
939	204.5	36.3	99	2	JH0429	Ig kappa chain V-I
940	204.5	36.3	111	2	S37202	Ig kappa chain V r
941	204	36.2	111	2	S20709	Ig kappa chain V r
942	203.5	36.1	91	2	PH1071	Ig light chain V r
943	203.5	36.1	92	2	S37503	Ig kappa chain V r
944	203.5	36.1	108	2	S36283	Ig lambda chain V
945	203.5	36.1	112	2	A36259	ig kappa chain V r
946	203.5	36.1	113	2	H30534	Ig kappa chain V r
947	203.5	36.1	121	2	B56700	Ig kappa chain (an
948	203	36.0	98	2	PH1062	Ig light chain V r
949	203	36.0	98	2	PH1065	Ig kappa chain V r
950	203	36.0	102	2	PH1077	Ig light chain V r
951	203	36.0	108	2	E32530	Ig kappa chain V r
952	202.5	35.9	77	2	D30502	Ig kappa chain V r
953	202.5	35.9	86	2	S16827	Ig kappa chain V r
954	202.5	35.9	98	2	S26342	Ig kappa chain V r
955	202.5	35.9	101	2	C34153	Ig kappa chain V-I
956	202.5	35.9	107	2	B45722	anti-glycoprotein
957	202.5	35.9	108	1	K2DGGM	Ig kappa chain V r
958	202.5	35.9	114	2	S40340	Ig kappa chain V-J
959	202.5	35.9	120	2	S42266	Ig kappa chain V r
960	202	35.8	87	2	S16823	Ig kappa chain V r
961	202	35.8	101	2	S59640	Ig light chain V r
962	202	35.8	120	2	S21666	Ig kappa chain V r
963	202	35.8	219	2	S16112	Ig kappa chain V r
964	201.5	35.7	86	2	S16824	Ig kappa chain V r
965	201.5	35.7	86	2	S16829	Ig kappa chain V r
966	201.5	35.7	87	2	S34097	Ig kappa chain V r
967	201.5	35.7	102	2	S11115	Ig kappa chain V r
968	201	35.6	85	2	F36025	Ig light chain V r
969	201	35.6	87	2	S16842	Ig kappa chain V r
970	201	35.6	91	2	S37511	Ig kappa chain V r
971	201	35.6	102	2	PH1079	Ig light chain V r
972	201	35.6	105	2	A30534	Ig kappa chain V r
973	201	35.6	112	2	A55491	proteolytic antibo
974	201	35.6	120	2	S06732	Ig kappa chain pre
975	200.5	35.5	86	2	C28195	Ig kappa chain V r
976	200.5	35.5	90	2	S38561	Ig light chain V r
977	200.5	35.5	91	2	S17622	Ig kappa chain V r
978	200.5	35.5	112	1	KVMSS1	Ig kappa chain V r

979	200.5	35.5	113	2	PT0409	Ig light chain V r
980	200	35.5	87	2	S16841	Ig kappa chain V r
981	200	35.5	112	2	PL0273	Ig kappa chain V r
982	199.5	35.4	101	2	S13701	Ig kappa chain V r
983	199.5	35.4	103	2	PH1045	Ig light chain V r
984	199.5	35.4	107	2	PL0272	Ig kappa chain V r
985	199.5	35.4	107	2	A45722	anti-glycoprotein
986	199.5	35.4	120	2	D29775	Ig kappa chain pre
987	199.5	35.4	234	2	A39956	Ig lambda chain pr
988	199	35.3	88	2	S38562	Ig kappa chain V r
989	199	35.3	93	2	A38601	Ig kappa chain V r
990	199	35.3	94	2	E33730	Ig kappa chain V r
991	199	35.3	97	2	PH1064	Ig light chain V r
992	199	35.3	104	2	C30534	Ig kappa chain V r
993	199	35.3	117	1	KVMS3B	Ig kappa chain pre
994	198.5	35.2	75	2	A34966	Ig heavy chain V r
995	198.5	35.2	107	2	PL0269	Ig kappa chain V r
996	198	35.1	93	2	S38564	Ig kappa chain V r
997	198	35.1	102	2	A34153	Ig kappa chain V-I
998	198	35.1	115	2	A53276	Ig kappa chain V r
999	197.5	35.0	77	2	S70443	Ig kappa chain V r
1000	197.5	35.0	86	2	S16834	Ig kappa chain V r
1001	197.5	35.0	86	2	S16839	Ig kappa chain V r
1002	197.5	35.0	86	2	S16831	Ig kappa chain V r
1003	197.5	35.0	86	2	S16825	Ig kappa chain V r
1004	197.5	35.0	98	2	PH1072	Ig light chain V r
1005	197.5	35.0	106	2	S20654	Ig lambda chain V
1006	197.5	35.0	107	2	PL0271	Ig kappa chain V r
1007	197.5	35.0	111	2	PS0074	Ig kappa chain V r
1008	197.5	35.0	116	2	PT0357	Ig kappa chain V r
1009	197	34.9	86	2	S78488	Ig kappa chain V r
1010	197	34.9	88	2	PL0261	Ig kappa chain V r
1011	197	34.9	103	2	S19975	Ig kappa chain V r
1012	197	34.9	107	2	S11122	Ig kappa chain V r
1013	196.5	34.8	79	2	S24215	Ig kappa chain - m
1014	196.5	34.8	102	2	E28195	Ig kappa chain V r
1015	196.5	34.8	107	2	D53285	Ig kappa chain V a
1016	196	34.8	112	2	S37203	Ig kappa chain V r
1017	196	34.8	113	1	K2HUFR	Ig kappa chain V-I
1018	196	34.8	113	1	KVMS17	Ig kappa chain V r
1019	195.5	34.7	86	2	S16835	Ig kappa chain V r
1020	195.5	34.7	97	2	PH1068	Ig light chain V r
1021	195.5	34.7	99	2	E28833	Ig heavy chain V r
1022	195.5	34.7	99	2	S24501	Ig kappa chain V r
1023	195.5	34.7	103	2	PH1031	Ig light chain V r
1024	195.5	34.7	103	2	PH1034	Ig light chain V r
1025	195.5	34.7	103	2	PH1030	Ig light chain V r
1026	195.5	34.7	110	2	PH0090	Ig light chain V r
1027	195.5	34.7	118	2	S24529	Ig kappa chain V r
1028	195	34.6	92	2	S37518	Ig kappa chain V r
1029	194.5	34.5	95	2	S25177	Ig kappa chain V r
1030	194.5	34.5	102	2	PH1044	Ig light chain V r
1031	194.5	34.5	103	2	PH1042	Ig light chain V r
1032	194.5	34.5	103	2	PH1043	Ig light chain V r
1033	194.5	34.5	113	1	KVMS51	Ig kappa chain V r
1034	194.5	34.5	118	2	S24536	Ig kappa chain V r
1035	194.5	34.5	118	2	S24503	Ig kappa chain V r
1036	194.5	34.5	118	2	S24500	Ig kappa chain V r
1037	194.5	34.5	120	2	S42268	Ig kappa chain V r
1038	194.5	34.5	126	2	S40341	Ig kappa chain - h
1039	194.5	34.5	128	2	S52448	Ig kappa chain V r
1040	194.5	34.5	128	2	JL0073	aberrant kappa tra
1041	194	34.4	91	2	S37515	Ig kappa chain V r
1042	194	34.4	115	2	A25924	Ig kappa chain pre
1043	193.5	34.3	81	2	G36025	Ig light chain V r
1044	193.5	34.3	83	2	S78489	Ig kappa chain V r
1045	193.5	34.3	93	2	S38559	Ig light chain V r
1046	193.5	34.3	96	2	B49442	Ig light chain V r
1047	193.5	34.3	100	2	D28833	Ig heavy chain V r
1048	193.5	34.3	106	2	PL0267	Ig kappa chain V r
1049	193	34.2	102	2	I30534	Ig kappa chain V r
1050	193	34.2	109	2	PH0089	Ig kappa chain V r
1051	192.5	34.1	94	2	C32529	Ig lambda chain V
1052	192.5	34.1	111	2	A33936	Ig kappa chain V r
1053	192.5	34.1	118	2	S24533	Ig kappa chain V r
1054	192.5	34.1	127	2	S40323	Ig kappa chain - h
1055	192	34.0	81	2	PH1048	Ig light chain V r
1056	192	34.0	121	2	S24205	Ig kappa chain V r
1057	191.5	34.0	118	2	S24535	Ig kappa chain V r
1058	191	33.9	120	2	S06731	Ig kappa chain pre
1059	190.5	33.8	78	2	S34102	Ig kappa chain V r
1060	190.5	33.8	102	2	S14590	Ig kappa chain V r
1061	190.5	33.8	102	2	S26346	Ig kappa chain V r
1062	190.5	33.8	104	2	S36064	Ig lambda chain -
1063	190.5	33.8	119	2	A49032	Ig kappa chain V r
1064	190.5	33.8	123	2	S35479	Ig kappa chain pre
1065	190	33.7	94	2	PH1063	Ig light chain V r
1066	190	33.7	98	2	PH1073	Ig light chain V r
1067	190	33.7	120	2	S42270	Ig kappa chain V r
1068	190	33.7	123	2	S35302	B-cell protein 8HS
1069	190	33.7	132	2	B25912	Ig kappa chain pre
1070	189.5	33.6	112	2	S38716	Ig light chain V r
1071	189	33.5	87	2	S34094	Ig kappa chain V r
1072	189	33.5	88	2	A37262	Ig kappa chain V r
1073	189	33.5	91	2	S25462	Ig kappa chain V r
1074	189	33.5	102	2	S14591	Ig kappa chain V r
1075	189	33.5	116	2	S20708	Ig kappa chain V r
1076	188.5	33.4	71	2	S21526	Ig kappa chain V r
1077	188.5	33.4	102	2	S14592	Ig kappa chain V r
1078	188.5	33.4	103	2	PH1036	Ig light chain V r
1079	188	33.3	107	2	S09967	Ig kappa chain V-J
1080	188	33.3	121	2	S67944	Ig kappa chain BrE
1081	187.5	33.2	86	2	S16836	Ig kappa chain V r
1082	187.5	33.2	103	2	PH1056	Ig light chain V r
1083	187	33.2	101	2	B28840	Ig kappa chain V r
1084	187	33.2	109	2	PH0091	Ig kappa chain V r
1085	187	33.2	120	1	KVMS67	Ig kappa chain pre
1086	186.5	33.1	83	2	I30607	Ig kappa chain V-I
1087	186.5	33.1	96	2	S55366	Ig kappa chain V r
1088	186.5	33.1	103	2	PH1041	Ig light chain V r
1089	186.5	33.1	103	2	PH1038	Ig light chain V r
1090	186.5	33.1	103	2	PH1037	Ig light chain V r
1091	186.5	33.1	118	2	S24510	Ig kappa chain V r
1092	186.5	33.1	120	2	S42267	Ig kappa chain V r
1093	186	33.0	99	2	S14586	Ig lambda chain V
1094	186	33.0	99	2	S14585	Ig lambda chain V
1095	186	33.0	115	2	B25924	Ig kappa chain pre
1096	185.5	32.9	86	2	S20649	Ig heavy chain V r
1097	185.5	32.9	94	2	F33730	Ig kappa chain V r
1098	185.5	32.9	103	2	PH1098	Ig light chain V r
1099	185.5	32.9	103	2	PH1055	Ig light chain V r
1100	185.5	32.9	112	1	KVMS16	Ig kappa chain V r
1101	185.5	32.9	118	2	S24538	Ig kappa chain V r
1102	184.5	32.7	81	2	S42193	Ig kappa chain V r
1103	184	32.6	83	2	S34095	Ig kappa chain V r
1104	184	32.6	114	2	S00996	Ig kappa chain pre
1105	183.5	32.5	92	2	A28762	Ig kappa chain V r
1106	183.5	32.5	99	2	S24504	Ig kappa chain V r
1107	183.5	32.5	104	1	KVRBXP	Ig kappa chain V r
1108	183.5	32.5	107	2	C45722	anti-glycoprotein
1109	183.5	32.5	118	2	S24530	Ig kappa chain V r
1110	182.5	32.4	118	2	S24506	Ig kappa chain V r
1111	182.5	32.4	118	2	S24507	Ig kappa chain V r
1112	182.5	32.4	118	2	S24539	Ig kappa chain V r
1113	182	32.3	100	2	H33730	Ig kappa chain V r
1114	182	32.3	103	2	PH1040	Ig light chain V r
1115	182	32.3	115	1	KVMSL7	Ig kappa chain pre
1116	182	32.3	127	2	S09230	Ig kappa chain pre
1117	181.5	32.2	100	2	B28833	Ig heavy chain V r
1118	181.5	32.2	101	2	A33730	Ig kappa chain V r
1119	181.5	32.2	102	2	S14594	Ig kappa chain V r
1120	181.5	32.2	102	2	S14593	Ig kappa chain V r
1121	181.5	32.2	106	2	PL0088	Ig kappa chain V r
1122	181	32.1	102	2	PH1035	Ig light chain V r
1123	181	32.1	118	2	S24508	Ig kappa chain V r
1124	180.5	32.0	86	2	S26459	Ig kappa chain V r

1125	180.5	32.0	103	2	PH1100	Ig light chain V r
1126	180.5	32.0	104	2	B43413	Ig kappa chain V r
1127	180.5	32.0	106	2	S40091	Ig light chain - m
1128	180.5	32.0	120	2	C29775	Ig kappa chain pre
1129	180	31.9	92	2	D28840	Ig kappa chain V r
1130	180	31.9	103	2	S36067	Ig lambda chain -
1131	180	31.9	122	2	S16439	Ig lambda chain -
1132	179.5	31.8	92	2	A27633	Ig lambda-2 chain
1133	179.5	31.8	216	2	JE0241	Ig kappa chain Am3
1134	179	31.7	99	2	S14584	Ig lambda chain V
1135	178.5	31.6	103	2	PH1099	Ig light chain V r
1136	178.5	31.6	118	2	S24532	Ig kappa chain V r
1137	178	31.6	101	2	C28840	Ig kappa chain V r
1138	178	31.6	119	2	A27588	Ig kappa chain pre
1139	177.5	31.5	100	2	C28833	Ig heavy chain V r
1140	177	31.4	97	2	PH1090	Ig lambda chain V
1141	177	31.4	99	2	PH1089	Ig lambda chain V
1142	177	31.4	99	2	S14582	Ig lambda chain V
1143	177	31.4	116	1	L1MSV	Ig lambda-1 chain
1144	177	31.4	120	2	A29775	Ig kappa chain pre
1145	176.5	31.3	94	2	A01955	Ig kappa-B5 chain
1146	176.5	31.3	138	2	A26471	Ig kappa chain pre
1147	176	31.2	100	2	PH1088	Ig lambda chain V
1148	175.5	31.1	82	2	S38560	Ig light chain V r
1149	175	31.0	98	2	PH1074	Ig light chain V r
1150	175	31.0	101	2	PH1057	Ig light chain V r
1151	174.5	30.9	79	2	A28840	Ig kappa chain V r
1152	174.5	30.9	86	2	S29587	Ig kappa chain V r
1153	174.5	30.9	93	2	PH1039	Ig light chain V r
1154	174.5	30.9	197	2	S29574	Ig light chain - A
1155	174	30.9	84	2	E28840	Ig kappa chain V r
1156	174	30.9	91	2	S42186	Ig kappa chain V r
1157	173.5	30.8	100	2	A28833	Ig heavy chain V r
1158	173.5	30.8	117	2	S41811	Ig kappa chain V r
1159	173	30.7	120	2	PS0055	Ig lambda chain pr
1160	173	30.7	120	2	PS0056	Ig lambda chain pr
1161	172	30.5	119	2	B27588	Ig kappa chain pre
1162	170.5	30.2	99	2	S14583	Ig lambda chain V
1163	170	30.1	54	2	S34093	Ig kappa chain V r
1164	169.5	30.1	87	2	PH1082	Ig light chain V r
1165	169.5	30.1	118	2	S24509	Ig kappa chain V r
1166	168	29.8	98	2	B33936	Ig kappa chain V r
1167	167.5	29.7	142	2	B28344	VpreB protein prec
1168	167.5	29.7	227	2	A33937	Ig light chain (13
1169	166.5	29.5	100	2	PH1087	Ig lambda chain V
1170	166.5	29.5	117	1	L2MSWE	Ig lambda-2 chain
1171	166.5	29.5	120	2	B29775	Ig kappa chain pre
1172	166	29.4	115	1	K3HU15	Ig kappa chain pre
1173	165	29.3	72	2	H36025	Ig heavy chain V r
1174	165	29.3	74	2	G30538	Ig kappa chain V r
1175	164.5	29.2	77	2	G28840	Ig kappa chain V r
1176	164.5	29.2	100	2	S45440	Ig kappa chain V r
1177	164	29.1	139	2	S00258	VpreB protein - hu
1178	164	29.1	145	2	I57832	VPre-B protein - h
1179	163	28.9	81	2	S22024	Ig kappa chain - m
1180	162.5	28.8	127	2	B29774	T-cell receptor al
1181	162.5	28.8	142	2	A28344	VpreB protein prec
1182	162	28.7	120	2	S41815	Ig kappa chain V r
1183	161.5	28.6	91	2	S25463	Ig kappa chain V r
1184	161	28.5	90	2	S24218	Ig kappa chain - m
1185	161	28.5	96	2	G33730	Ig kappa chain V r
1186	161	28.5	124	2	S03521	Ig kappa chain pre
1187	161	28.5	242	2	S06942	hypothetical prote
1188	160.5	28.5	118	2	S24498	Ig kappa chain V r
1189	160.5	28.5	227	2	B33937	Ig light chain (15
1190	160	28.4	100	2	PH1075	Ig light chain V r
1191	159.5	28.3	89	2	B25155	Ig kappa chain V r
1192	159	28.2	75	2	S40337	Ig kappa chain V-J
1193	159	28.2	115	2	S24663	Ig heavy chain V r
1194	157	27.8	151	2	S24064	T-cell receptor be
1195	156.5	27.7	113	4	I39320	T cell receptor al
1196	156.5	27.7	178	2	PT0219	Ig kappa chain V-C
1197	156	27.7	62	2	S42265	Ig kappa chain V r
1198	156	27.7	116	2	C27390	Ig lambda chain pr
1199	156	27.7	120	2	B29775	Ig kappa chain pre
1200	155	27.5	101	2	S11126	Ig kappa chain V r
1201	154	27.3	97	2	S36066	Ig lambda chain -
1202	154	27.3	119	2	S24665	Ig heavy chain V r
1203	152.5	27.0	118	2	S24531	Ig kappa chain V r
1204	152.5	27.0	129	2	S57884	T cell receptor WI
1205	152.5	27.0	135	2	S36298	T-cell receptor de
1206	152.5	27.0	143	2	S36300	T-cell receptor de
1207	151.5	26.9	120	2	S24664	Ig heavy chain V r
1208	150.5	26.7	118	2	S24537	Ig kappa chain V r
1209	150	26.6	137	2	S03489	T-cell receptor be
1210	150	26.6	142	2	S36316	T-cell receptor de
1211	149.5	26.5	83	2	S24211	Ig kappa chain V r
1212	149	26.4	269	2	S57494	T-cell receptor al
1213	148.5	26.3	104	2	A24424	T-cell receptor be
1214	148.5	26.3	133	2	S57876	T cell receptor CK
1215	148	26.2	573	2	S12838	Ig mu chain precur
1216	147.5	26.2	71	2	F28840	Ig kappa chain V r
1217	146.5	26.0	65	2	C38601	Ig kappa chain V r
1218	146.5	26.0	68	2	S26474	Ig kappa chain V r
1219	146.5	26.0	169	2	B26395	T-cell receptor be
1220	146	25.9	102	2	S03492	T-cell receptor be
1221	146	25.9	117	2	S24656	Ig heavy chain V r
1222	145.5	25.8	145	2	S36299	T-cell receptor de
1223	145.5	25.8	157	2	S04915	T-cell receptor de
1224	145	25.7	93	2	S24502	Ig kappa chain V r
1225	145	25.7	146	2	S26408	T-cell receptor be
1226	144.5	25.6	120	2	F28195	Ig heavy chain V r
1227	144	25.5	119	2	S24657	Ig heavy chain V r
1228	144	25.5	292	2	S03421	T-cell receptor de
1229	143.5	25.4	120	2	G28195	Ig heavy chain V r
1230	143.5	25.4	122	2	PH1426	Ig heavy chain V r
1231	143	25.4	67	2	S24216	Ig kappa chain - m
1232	143	25.4	117	2	S24661	Ig heavy chain V r
1233	142.5	25.3	124	2	S24653	Ig heavy chain V r
1234	142.5	25.3	149	2	S36317	T-cell receptor de
1235	142	25.2	113	2	PH1428	Ig heavy chain V r
1236	142	25.2	117	2	S19670	Ig heavy chain V r
1237	142	25.2	119	2	D30562	Ig heavy chain V r
1238	142	25.2	142	2	S19245	Ig heavy chain pre
1239	141.5	25.1	65	2	PH0880	Ig kappa chain V r
1240	141.5	25.1	140	2	S52777	T-cell receptor al
1241	141.5	25.1	143	2	S36321	T-cell receptor de
1242	141	25.0	111	2	S57889	T cell receptor Er
1243	141	25.0	119	2	S24659	Ig heavy chain V r
1244	141	25.0	137	2	S34152	Ig mu chain - axol
1245	141	25.0	142	2	S36309	T-cell receptor de
1246	140.5	24.9	141	2	S31685	Ig heavy chain V r
1247	140.5	24.9	141	2	S36318	T-cell receptor de
1248	140.5	24.9	146	2	S36323	T-cell receptor de
1249	140.5	24.9	167	2	S29579	Ig light chain - r
1250	140	24.8	115	1	A2HUBU	Ig heavy chain V-I
1251	140	24.8	138	2	PH1564	Ig heavy chain V r
1252	140	24.8	142	2	S36310	T-cell receptor de
1253	139.5	24.7	62	2	I30601	Ig kappa chain V-I
1254	139	24.6	109	2	JH0335	T-cell receptor al
1255	139	24.6	117	2	S32190	Ig heavy chain V r
1256	139	24.6	128	2	S16685	Ig heavy chain V r
1257	139	24.6	142	2	S04664	T-cell receptor de
1258	138.5	24.6	71	2	H30538	Ig kappa chain V r
1259	138.5	24.6	116	2	S31110	Ig heavy chain - h
1260	138.5	24.6	118	2	S24534	Ig kappa chain V r
1261	138.5	24.6	130	2	S03523	T-cell receptor al
1262	138	24.5	113	2	S15462	Ig lambda chain, i
1263	138	24.5	117	2	S19669	Ig heavy chain V r
1264	138	24.5	119	2	S24655	Ig heavy chain V r
1265	138	24.5	119	2	S24662	Ig heavy chain V r
1266	138	24.5	132	2	B31211	T-cell receptor al
1267	138	24.5	137	2	S36311	T-cell receptor de
1268	138	24.5	139	2	S38393	T-cell receptor be
1269	138	24.5	142	2	S38392	T-cell receptor be
1270	138	24.5	293	2	A40131	T-cell receptor de

1271	138	24.5	568	2	A45804	Ig mu chain C regi
1272	137.5	24.4	120	2	PQ0066	T-cell receptor be
1273	137.5	24.4	120	2	B22769	Ig heavy chain V r
1274	137.5	24.4	134	2	A45893	T-cell receptor al
1275	137	24.3	54	2	A25521	Ig kappa chain V r
1276	137	24.3	104	2	S26466	Ig heavy chain V r
1277	137	24.3	109	2	PH1672	Ig heavy chain V r
1278	137	24.3	117	2	S17586	Ig heavy chain V r
1279	137	24.3	123	2	PC4281	anti-SS-A/Ro 60K p
1280	137	24.3	125	2	PH1410	Ig heavy chain V r
1281	137	24.3	131	2	A27072	T-cell receptor be
1282	137	24.3	132	2	I46640	T-cell receptor de
1283	137	24.3	136	2	S36304	T-cell receptor de
1284	137	24.3	1005	2	T18537	Ig heavy chain - c
1285	136.5	24.2	122	2	A33989	Ig heavy chain V-1
1286	136.5	24.2	131	2	D30563	T-cell receptor be
1287	136.5	24.2	132	1	RWMSA3	T-cell receptor al
1288	136	24.1	89	2	A22775	Ig kappa chain pre
1289	136	24.1	102	2	S11698	Ig kappa chain pre
1290	136	24.1	119	2	C30562	Ig heavy chain V r
1291	136	24.1	123	2	C36006	Ig heavy chain V r
1292	136	24.1	132	2	S31603	Ig heavy chain V r
1293	135.5	24.0	119	2	F30502	Ig heavy chain V r
1294	135.5	24.0	137	2	S31701	Ig heavy chain V r
1295	135.5	24.0	141	2	I47197	Ig heavy chain var
1296	135.5	24.0	146	2	S00856	T-cell receptor al
1297	135	23.9	109	2	PH1644	Ig heavy chain V r
1298	135	23.9	116	2	S20645	Ig heavy chain V r
1299	135	23.9	118	2	PL0200	anti-DNA autoantib
1300	135	23.9	119	2	E30562	Ig heavy chain V r
1301	135	23.9	136	2	B45893	T-cell receptor al
1302	134.5	23.8	118	2	PH1660	Ig heavy chain V r
1303	134.5	23.8	120	2	S36306	T-cell receptor de
1304	134.5	23.8	120	2	C26945	T-cell receptor de
1305	134.5	23.8	134	2	PH1422	Ig heavy chain V r
1306	134.5	23.8	142	2	PL0043	T-cell receptor al
1307	134	23.8	102	2	PH1248	Ig heavy chain V r
1308	134	23.8	102	2	PH1260	Ig heavy chain V r
1309	134	23.8	111	2	PH1643	Ig heavy chain V r
1310	134	23.8	116	2	S37456	Ig mu chain - huma
1311	134	23.8	123	2	S38493	Ig heavy chain - h
1312	134	23.8	127	2	PH1420	Ig heavy chain V r
1313	134	23.8	136	2	PH1559	Ig heavy chain V r
1314	134	23.8	138	2	PH1565	Ig heavy chain V r
1315	134	23.8	144	2	E41287	Ig heavy chain pre
1316	134	23.8	144	2	PH1563	Ig heavy chain V r
1317	134	23.8	152	2	I47188	Ig heavy chain var
1318	134	23.8	273	2	PL0063	T-cell receptor al
1319	133.5	23.7	104	2	S36305	T-cell receptor de
1320	133.5	23.7	118	2	A32530	Ig heavy chain V r
1321	133.5	23.7	118	2	S31116	Ig heavy chain - h
1322	133.5	23.7	120	2	S24654	Ig heavy chain V r
1323	133.5	23.7	120	2	S31112	Ig heavy chain - h
1324	133.5	23.7	136	2	A49047	Ig heavy chain V r
1325	133	23.6	101	2	PU0003	Ig heavy chain V r
1326	133	23.6	106	2	S03476	T-cell receptor al
1327	133	23.6	123	2	S20646	Ig heavy chain V r
1328	132.5	23.5	118	2	F34792	Ig heavy chain pre
1329	132.5	23.5	131	2	E29774	T-cell receptor al
1330	132.5	23.5	134	2	C29774	T-cell receptor al
1331	132.5	23.5	135	2	S38386	T-cell receptor be
1332	132.5	23.5	135	2	S57882	T cell receptor PS
1333	132.5	23.5	141	2	PL0042	T-cell receptor al
1334	132	23.4	54	2	S40381	Ig kappa chain V-I
1335	132	23.4	121	2	S20783	Ig heavy chain V r
1336	132	23.4	133	2	S57880	T cell receptor HW
1337	132	23.4	133	2	I46632	rearranged T-cell
1338	132	23.4	136	2	PL0208	Ig heavy chain pre
1339	132	23.4	138	2	B56701	Ig heavy chain V r
1340	132	23.4	144	1	RWMVTV	T-cell receptor be
1341	131.5	23.3	116	1	HVRK	Ig heavy chain pre
1342	131.5	23.3	122	2	E36005	Ig heavy chain V r
1343	131.5	23.3	126	2	PH1424	Ig heavy chain V r
1344	131.5	23.3	126	2	PH1419	Ig heavy chain V r
1345	131.5	23.3	137	2	I47193	Ig heavy chain var
1346	131.5	23.3	137	2	S36303	T-cell receptor de
1347	131.5	23.3	142	2	A27608	T-cell receptor be
1348	131.5	23.3	147	2	PH1561	Ig heavy chain V r
1349	131	23.2	119	1	G1HUNI	Ig heavy chain V-I
1350	131	23.2	119	2	F36005	Ig heavy chain V r
1351	131	23.2	121	2	S24660	Ig heavy chain V r
1352	131	23.2	123	2	PH1423	Ig heavy chain V r
1353	131	23.2	123	2	S38492	Ig heavy chain - h
1354	131	23.2	141	2	I47177	Ig H-chain - pig (
1355	131	23.2	141	2	PL0045	T-cell receptor al
1356	131	23.2	151	2	I46626	rearranged T-cell
1357	130.5	23.1	118	2	PH1662	Ig heavy chain V r
1358	130.5	23.1	128	2	S48797	Ig heavy chain V r
1359	130.5	23.1	136	2	S36320	T-cell receptor de
1360	130.5	23.1	141	2	G27577	T-cell receptor be
1361	130	23.0	72	2	S40358	Ig kappa chain - h
1362	130	23.0	98	2	H47624	Ig heavy chain V-I
1363	130	23.0	103	2	S03496	T-cell receptor be
1364	130	23.0	109	2	PH1646	Ig heavy chain V r
1365	130	23.0	115	2	S03482	Ig heavy chain V-D
1366	130	23.0	116	2	S22558	Ig heavy chain V r
1367	130	23.0	126	2	S03479	T-cell receptor al
1368	130	23.0	131	2	A27472	Ig heavy chain pre
1369	130	23.0	134	2	S31679	Ig heavy chain V r
1370	130	23.0	135	2	S31598	Ig heavy chain V r
1371	130	23.0	138	2	A30561	Ig heavy chain pre
1372	130	23.0	141	2	S03495	T-cell receptor be
1373	130	23.0	144	2	S36308	T-cell receptor de
1374	129.5	23.0	113	2	PT0741	T-cell receptor be
1375	129.5	23.0	121	2	E30502	Ig heavy chain V r
1376	129.5	23.0	123	2	PT0384	Ig heavy chain V r
1377	129.5	23.0	134	2	B24747	T-cell receptor be
1378	129.5	23.0	134	2	B24402	T-cell receptor al
1379	129.5	23.0	136	2	S31587	Ig heavy chain V r
1380	129.5	23.0	136	2	I46635	rearranged T-cell
1381	129.5	23.0	139	1	MHMS18	Ig heavy chain pre
1382	129.5	23.0	139	2	PH1558	Ig heavy chain V r
1383	129.5	23.0	140	2	I46638	rearranged T-cell
1384	129.5	23.0	145	2	I46639	rearranged T-cell
1385	129.5	23.0	147	2	I37780	Ig variable region
1386	129.5	23.0	152	2	S21826	T-cell receptor be
1387	129.5	23.0	572	2	B46529	Ig Y heavy chain (
1388	129	22.9	106	2	S22895	T-cell receptor al
1389	129	22.9	116	2	S55542	Ig heavy chain V r
1390	129	22.9	117	2	S24658	Ig heavy chain V r
1391	129	22.9	143	2	JL0082	T-cell receptor de
1392	128.5	22.8	97	2	S26935	Ig heavy chain V r
1393	128.5	22.8	97	2	S46462	Ig heavy chain V r
1394	128.5	22.8	108	2	PH1656	Ig heavy chain V r
1395	128.5	22.8	114	2	S46392	Ig heavy chain V r
1396	128.5	22.8	116	2	B28966	Ig heavy chain pre
1397	128.5	22.8	117	2	S55541	Ig heavy chain V r
1398	128.5	22.8	126	2	PH1412	Ig heavy chain V r
1399	128.5	22.8	132	1	RWMS12	T-cell receptor ga
1400	128.5	22.8	137	2	PH1562	Ig heavy chain V r
1401	128.5	22.8	137	2	H32513	Ig heavy chain pre
1402	128.5	22.8	139	2	I47207	Ig heavy chain var
1403	128.5	22.8	210	2	S36297	T-cell receptor ga
1404	128.5	22.8	279	2	S04693	T-cell receptor de
1405	128.5	22.8	549	2	S04845	Ig heavy chain pre
1406	128	22.7	67	2	PH1081	Ig light chain V r
1407	128	22.7	102	2	PH1241	Ig heavy chain V r
1408	128	22.7	109	2	PH1671	Ig heavy chain V r
1409	128	22.7	111	2	PH1645	Ig heavy chain V r
1410	128	22.7	115	2	D27552	T-cell receptor be
1411	128	22.7	119	2	B32530	Ig heavy chain V r
1412	128	22.7	119	2	S20640	Ig heavy chain V r
1413	128	22.7	127	2	PH1411	Ig heavy chain V r
1414	128	22.7	131	2	S26792	Ig heavy chain V r
1415	128	22.7	135	1	RWHUVY	T-cell receptor be
1416	128	22.7	136	2	S04576	Ig heavy chain pre

1417	127.5	22.6	108	2	PH1642	Ig heavy chain V r
1418	127.5	22.6	113	2	S26266	T-cell receptor be
1419	127.5	22.6	114	4	A47271	nitrophenyl phosph
1420	127.5	22.6	118	2	C30560	Ig heavy chain V r
1421	127.5	22.6	118	2	S32786	Ig heavy chain (an
1422	127.5	22.6	122	2	PC4279	anti-SS-A/Ro 60K p
1423	127.5	22.6	139	2	S03485	T-cell receptor be
1424	127.5	22.6	214	2	PC4202	monoclonal antibod
1425	127.5	22.6	264	2	F27579	T-cell receptor al
1426	127	22.5	69	2	PH1080	Ig light chain V r
1427	127	22.5	95	2	G30603	T-cell receptor al
1428	127	22.5	102	2	PH1268	Ig heavy chain V r
1429	127	22.5	102	2	PH1236	Ig heavy chain V r
1430	127	22.5	102	2	PH1264	Ig heavy chain V r
1431	127	22.5	105	2	JL0083	T-cell receptor de
1432	127	22.5	117	2	S03305	Ig heavy chain V r
1433	127	22.5	119	2	S36257	Ig heavy chain V r
1434	127	22.5	127	2	PH1414	Ig heavy chain V r
1435	127	22.5	134	2	A30563	T-cell receptor be
1436	127	22.5	138	2	E32513	Ig heavy chain pre
1437	126.5	22.4	65	2	B38601	Ig kappa chain V r
1438	126.5	22.4	111	2	JH0333	T-cell receptor al
1439	126.5	22.4	113	2	I46637	rearranged T-cell
1440	126.5	22.4	114	2	S31120	Ig heavy chain - h
1441	126.5	22.4	120	2	B42848	L6 mAb heavy chain
1442	126.5	22.4	122	2	A49049	Ig heavy chain V r
1443	126.5	22.4	126	2	PH1416	Ig heavy chain V r
1444	126.5	22.4	128	2	PH0952	Ig heavy chain V r
1445	126.5	22.4	132	2	I71933	MHC class II I-A-a
1446	126.5	22.4	135	2	S36314	T-cell receptor de
1447	126.5	22.4	136	2	PH0960	Ig heavy chain V r
1448	126.5	22.4	137	2	E29380	Ig heavy chain pre
1449	126.5	22.4	146	4	S33905	Ig heavy chain pre
1450	126	22.3	102	2	PH1254	Ig heavy chain V r
1451	126	22.3	115	2	B32071	T-cell receptor de
1452	126	22.3	119	2	PH0961	Ig heavy chain V r
1453	126	22.3	119	2	S03077	Ig heavy chain V r
1454	126	22.3	125	2	S20639	Ig heavy chain V r
1455	126	22.3	128	2	S26790	Ig heavy chain V r
1456	126	22.3	133	2	S31590	Ig heavy chain V r
1457	126	22.3	138	2	S21810	Ig heavy chain V r
1458	126	22.3	139	2	I46630	rearranged T-cell
1459	126	22.3	140	2	S55028	Ig heavy chain V r
1460	126	22.3	143	2	S23624	Ig heavy chain V r
1461	125.5	22.3	47	2	E32529	Ig lambda chain V
1462	125.5	22.3	99	2	A48223	Ig heavy chain V r
1463	125.5	22.3	117	2	B27563	Ig heavy chain V r
1464	125.5	22.3	118	2	S31105	Ig heavy chain (su
1465	125.5	22.3	118	2	S36265	Ig heavy chain V r
1466	125.5	22.3	119	2	A24672	Ig heavy chain pre
1467	125.5	22.3	124	2	S20775	Ig heavy chain V r
1468	125.5	22.3	131	2	S36301	T-cell receptor de
1469	125.5	22.3	133	2	S31510	Ig heavy chain - h
1470	125.5	22.3	137	1	G2MS43	Ig heavy chain pre
1471	125.5	22.3	144	2	S11244	Ig gamma-2a chain
1472	125.5	22.3	274	2	S33440	T-cell receptor ga
1473	125.5	22.3	474	1	G2MS11	Ig gamma-2b chain
1474	125.5	22.3	509	2	S17597	Ig delta chain (WI
1475	125	22.2	96	2	S26259	T-cell receptor be
1476	125	22.2	101	2	S42179	Ig gamma chain V r
1477	125	22.2	102	2	PH1247	Ig heavy chain V r
1478	125	22.2	102	2	PH1259	Ig heavy chain V r
1479	125	22.2	102	2	PH1237	Ig heavy chain V r
1480	125	22.2	102	2	PH1232	Ig heavy chain V r
1481	125	22.2	102	2	PH1262	Ig heavy chain V r
1482	125	22.2	102	2	PH1271	Ig heavy chain V r
1483	125	22.2	113	2	B36259	Ig heavy chain V r
1484	125	22.2	114	2	PT0181	Ig heavy chain V r
1485	125	22.2	119	2	PH0098	Ig heavy chain V r
1486	125	22.2	119	2	D30540	Ig heavy chain V r
1487	125	22.2	121	2	S19666	Ig heavy chain V r
1488	125	22.2	122	1	AVMSX2	Ig heavy chain V r
1489	125	22.2	123	2	S32186	Ig heavy chain V r
1490	125	22.2	124	2	S06824	Ig heavy chain V r
1491	125	22.2	127	2	PH1415	Ig heavy chain V r
1492	125	22.2	130	2	S31601	Ig heavy chain V r
1493	125	22.2	131	2	PH1425	Ig heavy chain V r
1494	125	22.2	137	2	C45893	T-cell receptor al
1495	125	22.2	139	2	B49829	T-cell receptor va
1496	125	22.2	140	2	A24770	hypothetical hybri
1497	125	22.2	144	1	G2MS14	Ig heavy chain pre
1498	125	22.2	145	2	I46631	rearranged T-cell
1499	124.5	22.1	114	2	S46390	Ig heavy chain V r
1500	124.5	22.1	135	2	I55978	MHC class II I-A-a

Search completed: April 7, 2005, 18:12:32
Job time : 26.7143 secs

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OM protein - protein search, using sw model

Run on: April 7, 2005, 18:02:12 ; Search time 87.4286 Seconds
(without alignments)
410.114 Million cell updates/sec

Title: US-09-880-748-1_COPY_141_249
Perfect score: 564
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	564	100.0	240	10	US-09-880-748-1930	Sequence 1930, Ap
3	564	100.0	240	10	US-09-880-748-2047	Sequence 2047, Ap
4	564	100.0	240	10	US-09-880-748-2050	Sequence 2050, Ap
5	564	100.0	240	10	US-09-880-748-2052	Sequence 2052, Ap
6	564	100.0	240	10	US-09-880-748-2059	Sequence 2059, Ap
7	564	100.0	240	10	US-09-880-748-2061	Sequence 2061, Ap
8	564	100.0	240	15	US-10-293-418-1886	Sequence 1886, Ap
9	564	100.0	240	15	US-10-293-418-1930	Sequence 1930, Ap
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14	564	100.0	240	15	US-10-293-418-2061	Sequence 2061, Ap
15	564	100.0	242	14	US-10-151-882-16	Sequence 16, Appl
16	564	100.0	243	10	US-09-880-748-995	Sequence 995, App
17	564	100.0	243	10	US-09-880-748-1406	Sequence 1406, Ap
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95	564	100.0	247	17	US-10-935-290-89	Sequence 89, Appl
96	564	100.0	247	17	US-10-935-290-92	Sequence 92, Appl
97	564	100.0	247	17	US-10-935-290-101	Sequence 101, App
98	564	100.0	247	17	US-10-935-290-103	Sequence 103, App
99	564	100.0	247	17	US-10-935-290-108	Sequence 108, App
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109	564	100.0	248	15	US-10-293-418-1403	Sequence 1403, Ap
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115	564	100.0	249	10	US-09-880-748-1720	Sequence 1720, Ap
116	564	100.0	249	15	US-10-293-418-941	Sequence 941, App
117	564	100.0	249	15	US-10-293-418-1720	Sequence 1720, Ap
118	564	100.0	249	17	US-10-935-290-40	Sequence 40, Appl
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122	564	100.0	250	10	US-09-880-748-947	Sequence 947, App
123	564	100.0	250	10	US-09-880-748-964	Sequence 964, App
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163	564	100.0	251	10	US-09-880-748-855	Sequence 855, App
164	564	100.0	251	10	US-09-880-748-875	Sequence 875, App
165	564	100.0	251	10	US-09-880-748-876	Sequence 876, App
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399	564	100.0	253	10	US-09-880-748-989	Sequence 989, App
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519	564	100.0	257	10	US-09-880-748-1576	Sequence 1576, Ap
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523	564	100.0	257	15	US-10-293-418-1354	Sequence 1354, Ap
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547	563	99.8	251	10	US-09-880-748-1078	Sequence 1078, Ap
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577	560	99.3	247	17	US-10-935-290-97	Sequence 97, Appl
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613	560	99.3	253	10	US-09-880-748-1602	Sequence 1602, Ap
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625	560	99.3	256	15	US-10-293-418-872	Sequence 872, App
626	560	99.3	257	10	US-09-880-748-1579	Sequence 1579, Ap
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628	560	99.3	259	10	US-09-880-748-1664	Sequence 1664, Ap
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637	559	99.1	247	17	US-10-935-290-109	Sequence 109, App
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643	559	99.1	251	10	US-09-880-748-930	Sequence 930, App
644	559	99.1	251	10	US-09-880-748-1047	Sequence 1047, Ap
645	559	99.1	251	10	US-09-880-748-1132	Sequence 1132, Ap
646	559	99.1	251	10	US-09-880-748-1292	Sequence 1292, Ap
647	559	99.1	251	10	US-09-880-748-1562	Sequence 1562, Ap
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649	559	99.1	251	15	US-10-293-418-930	Sequence 930, App
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655	559	99.1	253	10	US-09-880-748-954	Sequence 954, App
656	559	99.1	253	10	US-09-880-748-1095	Sequence 1095, Ap
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675	558	98.9	250	10	US-09-880-748-933	Sequence 933, App
676	558	98.9	250	15	US-10-293-418-933	Sequence 933, App
677	558	98.9	251	10	US-09-880-748-945	Sequence 945, App
678	558	98.9	251	10	US-09-880-748-979	Sequence 979, App
679	558	98.9	251	10	US-09-880-748-1046	Sequence 1046, Ap
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684	558	98.9	251	10	US-09-880-748-1587	Sequence 1587, Ap
685	558	98.9	251	10	US-09-880-748-1760	Sequence 1760, Ap
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687	558	98.9	251	15	US-10-293-418-979	Sequence 979, App
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729	556	98.6	249	15	US-10-293-418-1442	Sequence 1442, Ap
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732	556	98.6	251	10	US-09-880-748-1747	Sequence 1747, Ap
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735	556	98.6	251	15	US-10-293-418-1747	Sequence 1747, Ap
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762	554	98.2	252	15	US-10-293-418-956	Sequence 956, App
763	554	98.2	255	10	US-09-880-748-1626	Sequence 1626, Ap
764	554	98.2	255	15	US-10-293-418-1626	Sequence 1626, Ap
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766	553	98.0	110	15	US-10-399-518-95	Sequence 95, Appl
767	553	98.0	129	15	US-10-399-518-141	Sequence 141, App
768	553	98.0	247	17	US-10-935-290-52	Sequence 52, Appl
769	553	98.0	247	17	US-10-935-290-59	Sequence 59, Appl
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771	553	98.0	250	17	US-10-921-710-49	Sequence 49, Appl
772	553	98.0	253	10	US-09-880-748-1007	Sequence 1007, Ap
773	553	98.0	253	15	US-10-293-418-1007	Sequence 1007, Ap
774	553	98.0	256	15	US-10-399-518-143	Sequence 143, App
775	553	98.0	266	15	US-10-399-518-144	Sequence 144, App
776	552.5	98.0	253	10	US-09-880-748-1069	Sequence 1069, Ap
777	552.5	98.0	253	15	US-10-293-418-1069	Sequence 1069, Ap
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797	546	96.8	251	10	US-09-880-748-1800	Sequence 1800, Ap
798	546	96.8	251	15	US-10-293-418-1800	Sequence 1800, Ap
799	545	96.6	250	10	US-09-880-748-1413	Sequence 1413, Ap
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807	540	95.7	254	10	US-09-880-748-888	Sequence 888, App
808	540	95.7	254	15	US-10-293-418-888	Sequence 888, App
809	538	95.4	244	17	US-10-935-290-60	Sequence 60, Appl
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813	530	94.0	256	15	US-10-293-418-8	Sequence 8, Appli
814	526	93.3	240	15	US-10-062-188-9	Sequence 9, Appli
815	526	93.3	247	17	US-10-935-290-77	Sequence 77, Appl
816	524	92.9	245	14	US-10-139-785-47	Sequence 47, Appl

817	523	92.7	235	16	US-10-663-244-154	Sequence 154, App
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826	517	91.7	110	16	US-10-663-244-87	Sequence 87, Appl
827	517	91.7	247	17	US-10-935-290-105	Sequence 105, App
828	516.5	91.6	162	15	US-10-364-743-62	Sequence 62, Appl
829	516	91.5	241	10	US-09-880-748-1888	Sequence 1888, Ap
830	516	91.5	241	10	US-09-880-748-2055	Sequence 2055, Ap
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832	516	91.5	241	15	US-10-293-418-2055	Sequence 2055, Ap
833	516	91.5	242	10	US-09-880-748-1884	Sequence 1884, Ap
834	516	91.5	242	15	US-10-293-418-1884	Sequence 1884, Ap
835	516	91.5	243	15	US-10-406-830-19	Sequence 19, Appl
836	516	91.5	247	10	US-09-880-748-1685	Sequence 1685, Ap
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839	516	91.5	247	17	US-10-935-290-96	Sequence 96, Appl
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842	516	91.5	251	15	US-10-293-418-917	Sequence 917, App
843	516	91.5	251	15	US-10-293-418-925	Sequence 925, App
844	516	91.5	256	10	US-09-880-748-1791	Sequence 1791, Ap
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846	516	91.5	258	10	US-09-880-748-1173	Sequence 1173, Ap
847	516	91.5	258	15	US-10-293-418-1173	Sequence 1173, Ap
848	516	91.5	258	15	US-10-293-418-3246	Sequence 3246, Ap
849	514	91.1	215	16	US-10-128-520-135	Sequence 135, App
850	512.5	90.9	214	16	US-10-128-520-127	Sequence 127, App
851	512	90.8	215	16	US-10-128-520-103	Sequence 103, App
852	512	90.8	215	16	US-10-128-520-113	Sequence 113, App
853	511.5	90.7	114	9	US-09-974-449-8	Sequence 8, Appli
854	511.5	90.7	219	9	US-09-974-449-38	Sequence 38, Appl
855	511	90.6	215	16	US-10-128-520-133	Sequence 133, App
856	510	90.4	110	15	US-10-447-331-1	Sequence 1, Appli
857	510	90.4	215	16	US-10-128-520-98	Sequence 98, Appl
858	509.5	90.3	214	16	US-10-128-520-124	Sequence 124, App
859	509.5	90.3	251	16	US-10-779-461-30	Sequence 30, Appl
860	509	90.2	215	16	US-10-128-520-97	Sequence 97, Appl
861	508	90.1	245	14	US-10-139-785-51	Sequence 51, Appl
862	508	90.1	245	14	US-10-139-785-52	Sequence 52, Appl
863	508	90.1	246	10	US-09-880-748-2077	Sequence 2077, Ap
864	508	90.1	246	15	US-10-293-418-2077	Sequence 2077, Ap
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866	507.5	90.0	216	17	US-10-887-228A-10	Sequence 10, Appl
867	507.5	90.0	216	17	US-10-887-231-10	Sequence 10, Appl
868	507	89.9	215	16	US-10-128-520-102	Sequence 102, App
869	507	89.9	215	16	US-10-128-520-130	Sequence 130, App
870	507	89.9	250	16	US-10-779-461-22	Sequence 22, Appl
871	507	89.9	254	10	US-09-880-748-1525	Sequence 1525, Ap
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874	506	89.7	250	16	US-10-779-461-29	Sequence 29, Appl
875	505.5	89.6	216	16	US-10-128-520-114	Sequence 114, App
876	505	89.5	211	16	US-10-128-520-99	Sequence 99, Appl
877	505	89.5	215	16	US-10-128-520-117	Sequence 117, App
878	505	89.5	215	16	US-10-128-520-128	Sequence 128, App
879	505	89.5	215	16	US-10-128-520-136	Sequence 136, App
880	504.5	89.5	216	17	US-10-887-231-39	Sequence 39, Appl
881	504	89.4	215	16	US-10-128-520-101	Sequence 101, App
882	503.5	89.3	216	16	US-10-128-520-120	Sequence 120, App
883	503.5	89.3	257	10	US-09-880-748-1710	Sequence 1710, Ap
884	503.5	89.3	257	15	US-10-293-418-1710	Sequence 1710, Ap
885	503	89.2	215	16	US-10-128-520-116	Sequence 116, App
886	502	89.0	110	14	US-10-269-805-60	Sequence 60, Appl
887	501	88.8	215	16	US-10-128-520-137	Sequence 137, App
888	501	88.8	256	10	US-09-880-748-2080	Sequence 2080, Ap
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891	500	88.7	258	10	US-09-880-748-1365	Sequence 1365, Ap
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898	497	88.1	251	10	US-09-880-748-1013	Sequence 1013, Ap
899	497	88.1	251	15	US-10-293-418-1010	Sequence 1010, Ap
900	497	88.1	251	15	US-10-293-418-1013	Sequence 1013, Ap
901	496.5	88.0	216	16	US-10-128-520-110	Sequence 110, App
902	496.5	88.0	216	16	US-10-128-520-125	Sequence 125, App
903	496.5	88.0	216	17	US-10-887-231-31	Sequence 31, Appl
904	496	87.9	244	10	US-09-880-748-1371	Sequence 1371, Ap
905	496	87.9	244	15	US-10-293-418-1371	Sequence 1371, Ap
906	495.5	87.9	110	14	US-10-125-687-13	Sequence 13, Appl
907	494.5	87.7	216	16	US-10-128-520-119	Sequence 119, App
908	493.5	87.5	112	14	US-10-320-231A-31	Sequence 31, Appl
909	492.5	87.3	290	15	US-10-406-830-4	Sequence 4, Appli
910	492	87.2	117	14	US-10-010-729-17	Sequence 17, Appl
911	492	87.2	252	17	US-10-935-290-126	Sequence 126, App
912	491	87.1	235	14	US-10-076-747-82	Sequence 82, Appl
913	490.5	87.0	216	17	US-10-887-231-23	Sequence 23, Appl
914	490	86.9	213	16	US-10-128-520-138	Sequence 138, App
915	490	86.9	213	16	US-10-128-520-139	Sequence 139, App
916	490	86.9	258	10	US-09-880-748-2090	Sequence 2090, Ap
917	490	86.9	258	15	US-10-293-418-2090	Sequence 2090, Ap
918	489.5	86.8	216	17	US-10-887-231-27	Sequence 27, Appl
919	489	86.7	253	16	US-10-779-461-18	Sequence 18, Appl
920	488.5	86.6	119	17	US-10-783-311-270	Sequence 270, App
921	488.5	86.6	216	17	US-10-887-231-25	Sequence 25, Appl
922	488.5	86.6	216	17	US-10-887-231-33	Sequence 33, Appl
923	488	86.5	213	16	US-10-128-520-121	Sequence 121, App
924	488	86.5	244	10	US-09-880-748-1372	Sequence 1372, Ap
925	488	86.5	244	15	US-10-293-418-1372	Sequence 1372, Ap
926	487.5	86.4	216	16	US-10-128-520-131	Sequence 131, App
927	487.5	86.4	252	10	US-09-880-748-1462	Sequence 1462, Ap
928	487.5	86.4	252	15	US-10-293-418-1462	Sequence 1462, Ap
929	485	86.0	245	14	US-10-139-785-48	Sequence 48, Appl
930	483.5	85.7	250	10	US-09-880-748-859	Sequence 859, App
931	483.5	85.7	250	15	US-10-293-418-859	Sequence 859, App
932	483	85.6	242	14	US-10-225-108A-14	Sequence 14, Appl
933	483	85.6	242	15	US-10-461-148-7	Sequence 7, Appli
934	483	85.6	245	14	US-10-139-785-42	Sequence 42, Appl
935	482	85.5	161	15	US-10-364-743-63	Sequence 63, Appl
936	482	85.5	166	15	US-10-364-743-35	Sequence 35, Appl
937	482	85.5	245	14	US-10-139-785-43	Sequence 43, Appl
938	480	85.1	166	15	US-10-364-743-36	Sequence 36, Appl
939	480	85.1	254	10	US-09-880-748-1544	Sequence 1544, Ap
940	480	85.1	254	15	US-10-293-418-1544	Sequence 1544, Ap
941	476.5	84.5	253	10	US-09-880-748-1364	Sequence 1364, Ap
942	476.5	84.5	253	15	US-10-293-418-1364	Sequence 1364, Ap
943	476	84.4	245	14	US-10-139-785-45	Sequence 45, Appl
944	476	84.4	256	10	US-09-880-748-907	Sequence 907, App
945	476	84.4	256	15	US-10-293-418-907	Sequence 907, App
946	475.5	84.3	119	17	US-10-783-311-166	Sequence 166, App
947	475.5	84.3	119	17	US-10-783-311-190	Sequence 190, App
948	474	84.0	99	15	US-10-308-817-99	Sequence 99, Appl
949	474	84.0	99	15	US-10-453-698-99	Sequence 99, Appl
950	474	84.0	118	17	US-10-783-311-318	Sequence 318, App
951	473	83.9	247	14	US-10-322-673-48	Sequence 48, Appl
952	472.5	83.8	255	10	US-09-880-748-1233	Sequence 1233, Ap
953	472.5	83.8	255	15	US-10-293-418-1233	Sequence 1233, Ap
954	472	83.7	245	14	US-10-139-785-49	Sequence 49, Appl
955	470	83.3	249	14	US-10-182-132-2	Sequence 2, Appli
956	469	83.2	161	15	US-10-364-743-64	Sequence 64, Appl
957	468.5	83.1	253	10	US-09-880-748-1520	Sequence 1520, Ap
958	468.5	83.1	253	15	US-10-293-418-1520	Sequence 1520, Ap
959	467.5	82.9	216	17	US-10-887-228A-6	Sequence 6, Appli
960	467.5	82.9	216	17	US-10-887-231-2	Sequence 2, Appli
961	467.5	82.9	255	10	US-09-880-748-906	Sequence 906, App
962	467.5	82.9	255	15	US-10-293-418-906	Sequence 906, App

963	467.5	82.9	256	10	US-09-880-748-1209	Sequence 1209, Ap
964	467.5	82.9	256	15	US-10-293-418-1209	Sequence 1209, Ap
965	466.5	82.7	111	15	US-10-360-828-61	Sequence 61, Appl
966	466.5	82.7	240	10	US-09-880-748-1898	Sequence 1898, Ap
967	466.5	82.7	240	15	US-10-293-418-1898	Sequence 1898, Ap
968	465.5	82.5	243	10	US-09-880-748-1909	Sequence 1909, Ap
969	465.5	82.5	243	10	US-09-880-748-1916	Sequence 1916, Ap
970	465.5	82.5	243	10	US-09-880-748-2051	Sequence 2051, Ap
971	465.5	82.5	243	15	US-10-293-418-1909	Sequence 1909, Ap
972	465.5	82.5	243	15	US-10-293-418-1916	Sequence 1916, Ap
973	465.5	82.5	243	15	US-10-293-418-2051	Sequence 2051, Ap
974	464	82.3	255	14	US-10-322-673-49	Sequence 49, Appl
975	463.5	82.2	246	10	US-09-880-748-1241	Sequence 1241, Ap
976	463.5	82.2	246	15	US-10-293-418-1241	Sequence 1241, Ap
977	463.5	82.2	247	16	US-10-779-461-12	Sequence 12, Appl
978	463	82.1	110	14	US-10-269-805-34	Sequence 34, Appl
979	463	82.1	245	14	US-10-139-785-46	Sequence 46, Appl
980	460	81.6	243	17	US-10-935-290-53	Sequence 53, Appl
981	460	81.6	247	10	US-09-880-748-1697	Sequence 1697, Ap
982	460	81.6	247	15	US-10-293-418-1697	Sequence 1697, Ap
983	460	81.6	248	10	US-09-880-748-1599	Sequence 1599, Ap
984	460	81.6	248	15	US-10-293-418-1599	Sequence 1599, Ap
985	460	81.6	251	10	US-09-880-748-1171	Sequence 1171, Ap
986	460	81.6	251	10	US-09-880-748-1496	Sequence 1496, Ap
987	460	81.6	251	15	US-10-293-418-1171	Sequence 1171, Ap
988	460	81.6	251	15	US-10-293-418-1496	Sequence 1496, Ap
989	460	81.6	254	10	US-09-880-748-3	Sequence 3, Appli
990	460	81.6	254	10	US-09-880-748-1295	Sequence 1295, Ap
991	460	81.6	254	15	US-10-293-418-3	Sequence 3, Appli
992	460	81.6	254	15	US-10-293-418-1295	Sequence 1295, Ap
993	459	81.4	250	16	US-10-779-461-6	Sequence 6, Appli
994	458	81.2	110	14	US-10-091-300-39	Sequence 39, Appl
995	457	81.0	254	10	US-09-880-748-838	Sequence 838, App
996	457	81.0	254	15	US-10-293-418-838	Sequence 838, App
997	456.5	80.9	108	10	US-09-848-798-68	Sequence 68, Appl
998	456.5	80.9	253	10	US-09-880-748-1249	Sequence 1249, Ap
999	456.5	80.9	253	15	US-10-293-418-1249	Sequence 1249, Ap
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1002	456	80.9	254	10	US-09-880-748-1287	Sequence 1287, Ap
1003	456	80.9	254	15	US-10-293-418-1287	Sequence 1287, Ap
1004	455.5	80.8	250	16	US-10-779-461-40	Sequence 40, Appl
1005	455	80.7	165	15	US-10-364-743-34	Sequence 34, Appl
1006	455	80.7	254	10	US-09-880-748-870	Sequence 870, App
1007	455	80.7	254	15	US-10-293-418-870	Sequence 870, App
1008	454.5	80.6	119	17	US-10-783-311-222	Sequence 222, App
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1012	454	80.5	103	16	US-10-803-622-175	Sequence 175, App
1013	454	80.5	103	16	US-10-803-653-175	Sequence 175, App
1014	453	80.3	254	10	US-09-880-748-1288	Sequence 1288, Ap
1015	453	80.3	254	15	US-10-293-418-1288	Sequence 1288, Ap
1016	452	80.1	99	15	US-10-308-817-101	Sequence 101, App
1017	452	80.1	99	15	US-10-453-698-101	Sequence 101, App
1018	450.5	79.9	100	17	US-10-733-532-129	Sequence 129, App
1019	449	79.6	110	14	US-10-091-300-29	Sequence 29, Appl
1020	448.5	79.5	221	13	US-10-001-857-202	Sequence 202, App
1021	447.5	79.3	104	10	US-09-848-798-69	Sequence 69, Appl
1022	447	79.3	161	15	US-10-364-743-65	Sequence 65, Appl
1023	445.5	79.0	249	10	US-09-880-748-2065	Sequence 2065, Ap
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1026	444	78.7	99	15	US-10-453-698-97	Sequence 97, Appl
1027	442.5	78.5	219	14	US-10-026-925-57	Sequence 57, Appl
1028	442	78.4	257	16	US-10-779-461-43	Sequence 43, Appl
1029	442	78.4	258	10	US-09-880-748-862	Sequence 862, App
1030	442	78.4	258	15	US-10-293-418-862	Sequence 862, App
1031	441	78.2	99	15	US-10-308-817-98	Sequence 98, Appl
1032	441	78.2	99	15	US-10-453-698-98	Sequence 98, Appl
1033	441	78.2	167	15	US-10-108-260A-4791	Sequence 4791, Ap
1034	440	78.0	97	9	US-09-864-761-39459	Sequence 39459, A
1035	439.5	77.9	253	10	US-09-880-748-1361	Sequence 1361, Ap
1036	439.5	77.9	253	15	US-10-293-418-1361	Sequence 1361, Ap
1037	438.5	77.7	239	10	US-09-880-748-2034	Sequence 2034, Ap
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1039	438	77.7	254	10	US-09-880-748-1854	Sequence 1854, Ap
1040	438	77.7	254	10	US-09-880-748-1857	Sequence 1857, Ap
1041	438	77.7	254	15	US-10-293-418-1854	Sequence 1854, Ap
1042	438	77.7	254	15	US-10-293-418-1857	Sequence 1857, Ap
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1044	436	77.3	90	14	US-10-125-687-27	Sequence 27, Appl
1045	434	77.0	256	10	US-09-880-748-1558	Sequence 1558, Ap
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1047	431.5	76.5	165	15	US-10-364-743-33	Sequence 33, Appl
1048	425.5	75.4	104	14	US-10-127-890-153	Sequence 153, App
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1050	425.5	75.4	104	15	US-10-325-696-17	Sequence 17, Appl
1051	425.5	75.4	104	17	US-10-717-243-153	Sequence 153, App
1052	424	75.2	686	15	US-10-072-012-795	Sequence 795, App
1053	423.5	75.1	256	10	US-09-880-748-1301	Sequence 1301, Ap
1054	423.5	75.1	256	15	US-10-293-418-1301	Sequence 1301, Ap
1055	422.5	74.9	126	17	US-10-783-311-352	Sequence 352, App
1056	421	74.6	99	15	US-10-308-817-100	Sequence 100, App
1057	421	74.6	99	15	US-10-453-698-100	Sequence 100, App
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1063	406	72.0	245	10	US-09-880-748-1926	Sequence 1926, Ap
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1076	406	72.0	247	15	US-10-293-418-1707	Sequence 1707, Ap
1077	406	72.0	247	15	US-10-293-418-1899	Sequence 1899, Ap
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1093	406	72.0	252	10	US-09-880-748-1698	Sequence 1698, Ap
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1097	406	72.0	253	10	US-09-880-748-1936	Sequence 1936, Ap
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1104	406	72.0	256	10	US-09-880-748-1607	Sequence 1607, Ap
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1106	406	72.0	256	15	US-10-293-418-1183	Sequence 1183, Ap
1107	406	72.0	256	15	US-10-293-418-1607	Sequence 1607, Ap
1108	406	72.0	256	15	US-10-293-418-1693	Sequence 1693, Ap

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1113	404	71.6	253	10	US-09-880-748-929	Sequence 929, App
1114	404	71.6	253	15	US-10-293-418-929	Sequence 929, App
1115	404	71.6	256	10	US-09-880-748-1559	Sequence 1559, Ap
1116	404	71.6	256	15	US-10-293-418-1559	Sequence 1559, Ap
1117	403	71.5	213	16	US-10-128-520-105	Sequence 105, App
1118	403	71.5	254	10	US-09-880-748-1659	Sequence 1659, Ap
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1123	401	71.1	109	14	US-10-001-934-50	Sequence 50, Appl
1124	401	71.1	109	14	US-10-001-934-52	Sequence 52, Appl
1125	401	71.1	109	15	US-10-275-046-89	Sequence 89, Appl
1126	401	71.1	109	15	US-10-275-046-91	Sequence 91, Appl
1127	400.5	71.0	214	17	US-10-887-228A-2	Sequence 2, Appli
1128	400.5	71.0	214	17	US-10-887-231-6	Sequence 6, Appli
1129	400.5	71.0	245	10	US-09-880-748-1864	Sequence 1864, Ap
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1132	400	70.9	109	15	US-10-275-046-59	Sequence 59, Appl
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1137	399	70.7	257	10	US-09-880-748-1610	Sequence 1610, Ap
1138	399	70.7	257	15	US-10-293-418-1610	Sequence 1610, Ap
1139	398	70.6	109	14	US-10-001-934-42	Sequence 42, Appl
1140	398	70.6	109	14	US-10-001-934-44	Sequence 44, Appl
1141	398	70.6	109	15	US-10-275-046-73	Sequence 73, Appl
1142	398	70.6	109	15	US-10-275-046-75	Sequence 75, Appl
1143	398	70.6	236	9	US-09-758-173-10	Sequence 10, Appl
1144	398	70.6	236	9	US-09-948-429B-10	Sequence 10, Appl
1145	398	70.6	236	13	US-10-124-905-10	Sequence 10, Appl
1146	398	70.6	236	14	US-10-124-807-10	Sequence 10, Appl
1147	398	70.6	236	14	US-10-291-532-10	Sequence 10, Appl
1148	397.5	70.5	214	17	US-10-887-231-17	Sequence 17, Appl
1149	397.5	70.5	214	17	US-10-887-231-37	Sequence 37, Appl
1150	397	70.4	109	14	US-10-001-934-48	Sequence 48, Appl
1151	396	70.2	109	15	US-10-275-046-77	Sequence 77, Appl
1152	395.5	70.1	214	16	US-10-128-520-104	Sequence 104, App
1153	395.5	70.1	254	10	US-09-880-748-1584	Sequence 1584, Ap
1154	395.5	70.1	254	15	US-10-293-418-1584	Sequence 1584, Ap
1155	395	70.0	89	14	US-10-105-545-29	Sequence 29, Appl
1156	395	70.0	109	14	US-10-001-934-46	Sequence 46, Appl
1157	395	70.0	109	15	US-10-275-046-85	Sequence 85, Appl
1158	395	70.0	109	15	US-10-275-046-95	Sequence 95, Appl
1159	395	70.0	243	10	US-09-880-748-1927	Sequence 1927, Ap
1160	395	70.0	243	15	US-10-293-418-1927	Sequence 1927, Ap
1161	394	69.9	109	14	US-10-125-687-12	Sequence 12, Appl
1162	393.5	69.8	214	17	US-10-887-231-19	Sequence 19, Appl
1163	393.5	69.8	251	10	US-09-880-748-904	Sequence 904, App
1164	393.5	69.8	251	10	US-09-880-748-1213	Sequence 1213, Ap
1165	393.5	69.8	251	15	US-10-293-418-904	Sequence 904, App
1166	393.5	69.8	251	15	US-10-293-418-1213	Sequence 1213, Ap
1167	393	69.7	109	14	US-10-001-934-58	Sequence 58, Appl
1168	393	69.7	109	15	US-10-275-046-97	Sequence 97, Appl
1169	393	69.7	248	10	US-09-880-748-1237	Sequence 1237, Ap
1170	393	69.7	248	15	US-10-293-418-1237	Sequence 1237, Ap
1171	393	69.7	250	10	US-09-880-748-1280	Sequence 1280, Ap
1172	393	69.7	250	15	US-10-293-418-1280	Sequence 1280, Ap
1173	392.5	69.6	111	14	US-10-269-805-22	Sequence 22, Appl
1174	392.5	69.6	255	10	US-09-880-748-1153	Sequence 1153, Ap
1175	392.5	69.6	255	10	US-09-880-748-2087	Sequence 2087, Ap
1176	392.5	69.6	255	15	US-10-293-418-1153	Sequence 1153, Ap
1177	392.5	69.6	255	15	US-10-293-418-2087	Sequence 2087, Ap
1178	392	69.5	109	15	US-10-275-046-71	Sequence 71, Appl
1179	392	69.5	111	14	US-10-320-231A-30	Sequence 30, Appl
1180	392	69.5	213	16	US-10-128-520-112	Sequence 112, App
1181	391.5	69.4	110	10	US-09-848-798-63	Sequence 63, Appl
1182	390.5	69.2	103	10	US-09-913-238-3	Sequence 3, Appli
1183	390	69.1	244	16	US-10-779-461-27	Sequence 27, Appl
1184	389.5	69.1	111	17	US-10-727-155-102	Sequence 102, App
1185	389.5	69.1	162	15	US-10-364-743-67	Sequence 67, Appl
1186	389.5	69.1	166	15	US-10-364-743-30	Sequence 30, Appl
1187	389.5	69.1	247	10	US-09-880-748-1492	Sequence 1492, Ap
1188	389.5	69.1	247	15	US-10-293-418-1492	Sequence 1492, Ap
1189	389.5	69.1	255	10	US-09-880-748-1539	Sequence 1539, Ap
1190	389.5	69.1	255	15	US-10-293-418-1539	Sequence 1539, Ap
1191	389	69.0	109	14	US-10-001-934-56	Sequence 56, Appl
1192	389	69.0	256	10	US-09-880-748-1855	Sequence 1855, Ap
1193	389	69.0	256	15	US-10-293-418-1855	Sequence 1855, Ap
1194	388.5	68.9	251	10	US-09-880-748-1023	Sequence 1023, Ap
1195	388.5	68.9	251	15	US-10-293-418-1023	Sequence 1023, Ap
1196	388	68.8	109	14	US-10-001-934-54	Sequence 54, Appl
1197	388	68.8	109	15	US-10-275-046-93	Sequence 93, Appl
1198	388	68.8	110	15	US-10-371-942-12	Sequence 12, Appl
1199	388	68.8	245	14	US-10-151-882-15	Sequence 15, Appl
1200	388	68.8	247	10	US-09-880-748-2092	Sequence 2092, Ap
1201	388	68.8	247	15	US-10-293-418-2092	Sequence 2092, Ap
1202	387.5	68.7	111	17	US-10-727-155-304	Sequence 304, App
1203	387.5	68.7	111	17	US-10-727-155-320	Sequence 320, App
1204	387.5	68.7	252	10	US-09-880-748-1505	Sequence 1505, Ap
1205	387.5	68.7	252	15	US-10-293-418-1505	Sequence 1505, Ap
1206	387.5	68.7	253	10	US-09-880-748-1359	Sequence 1359, Ap
1207	387.5	68.7	253	15	US-10-293-418-1359	Sequence 1359, Ap
1208	387.5	68.7	259	10	US-09-880-748-1497	Sequence 1497, Ap
1209	387.5	68.7	259	15	US-10-293-418-1497	Sequence 1497, Ap
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1211	387	68.6	252	15	US-10-293-418-1208	Sequence 1208, Ap
1212	386.5	68.5	262	10	US-09-880-748-1836	Sequence 1836, Ap
1213	386.5	68.5	262	15	US-10-293-418-1836	Sequence 1836, Ap
1214	386.5	68.5	310	13	US-10-052-798-11	Sequence 11, Appl
1215	386.5	68.5	310	14	US-10-288-917-11	Sequence 11, Appl
1216	386.5	68.5	310	15	US-10-423-448-11	Sequence 11, Appl
1217	386	68.4	240	10	US-09-880-748-2041	Sequence 2041, Ap
1218	386	68.4	240	15	US-10-293-418-2041	Sequence 2041, Ap
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1220	386	68.4	248	15	US-10-293-418-1031	Sequence 1031, Ap
1221	386	68.4	254	10	US-09-880-748-1973	Sequence 1973, Ap
1222	386	68.4	254	15	US-10-293-418-1973	Sequence 1973, Ap
1223	385.5	68.4	162	15	US-10-364-743-66	Sequence 66, Appl
1224	385.5	68.4	166	15	US-10-364-743-31	Sequence 31, Appl
1225	385.5	68.4	245	10	US-09-880-748-1521	Sequence 1521, Ap
1226	385.5	68.4	245	15	US-10-293-418-1521	Sequence 1521, Ap
1227	385.5	68.4	258	16	US-10-688-925-20	Sequence 20, Appl
1228	385.5	68.4	261	16	US-10-642-120-6	Sequence 6, Appli
1229	385.5	68.4	261	16	US-10-642-060-6	Sequence 6, Appli
1230	385.5	68.4	261	16	US-10-642-122-6	Sequence 6, Appli
1231	385.5	68.4	261	16	US-10-642-124-6	Sequence 6, Appli
1232	385.5	68.4	261	16	US-10-621-269-6	Sequence 6, Appli
1233	385.5	68.4	261	16	US-10-620-850-6	Sequence 6, Appli
1234	385.5	68.4	261	16	US-10-642-116-6	Sequence 6, Appli
1235	385.5	68.4	261	17	US-10-642-100-6	Sequence 6, Appli
1236	385.5	68.4	261	17	US-10-642-058-6	Sequence 6, Appli
1237	385.5	68.4	261	17	US-10-642-121-6	Sequence 6, Appli
1238	385	68.3	251	10	US-09-880-748-2125	Sequence 2125, Ap
1239	385	68.3	251	15	US-10-293-418-2125	Sequence 2125, Ap
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1241	384.5	68.2	251	10	US-09-880-748-1487	Sequence 1487, Ap
1242	384.5	68.2	251	15	US-10-293-418-1487	Sequence 1487, Ap
1243	384	68.1	136	16	US-10-327-598-1092	Sequence 1092, Ap
1244	384	68.1	246	10	US-09-880-748-1847	Sequence 1847, Ap
1245	384	68.1	246	15	US-10-293-418-1847	Sequence 1847, Ap
1246	384	68.1	248	10	US-09-880-748-1465	Sequence 1465, Ap
1247	384	68.1	248	15	US-10-293-418-1465	Sequence 1465, Ap
1248	384	68.1	253	10	US-09-880-748-1235	Sequence 1235, Ap
1249	384	68.1	253	15	US-10-293-418-1235	Sequence 1235, Ap
1250	383.5	68.0	147	10	US-09-988-115A-57	Sequence 57, Appl
1251	383.5	68.0	243	16	US-10-779-461-46	Sequence 46, Appl
1252	383.5	68.0	250	17	US-10-935-290-119	Sequence 119, App
1253	383.5	68.0	251	10	US-09-880-748-1217	Sequence 1217, Ap
1254	383.5	68.0	251	15	US-10-293-418-1217	Sequence 1217, Ap

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1258	383.5	68.0	258	10	US-09-880-748-1841	Sequence 1841, Ap
1259	383.5	68.0	258	15	US-10-293-418-1716	Sequence 1716, Ap
1260	383.5	68.0	258	15	US-10-293-418-1841	Sequence 1841, Ap
1261	383	67.9	110	16	US-10-779-461-149	Sequence 149, App
1262	383	67.9	246	16	US-10-779-461-41	Sequence 41, Appl
1263	383	67.9	249	10	US-09-880-748-1897	Sequence 1897, Ap
1264	383	67.9	249	10	US-09-880-748-2078	Sequence 2078, Ap
1265	383	67.9	249	15	US-10-293-418-1897	Sequence 1897, Ap
1266	383	67.9	249	15	US-10-293-418-2078	Sequence 2078, Ap
1267	383	67.9	269	9	US-09-888-721-36	Sequence 36, Appl
1268	383	67.9	282	9	US-09-888-721-38	Sequence 38, Appl
1269	383	67.9	287	9	US-09-888-721-40	Sequence 40, Appl
1270	383	67.9	291	9	US-09-888-721-44	Sequence 44, Appl
1271	383	67.9	296	9	US-09-888-721-42	Sequence 42, Appl
1272	382.5	67.8	112	16	US-10-884-830-36	Sequence 36, Appl
1273	382.5	67.8	252	10	US-09-880-748-1378	Sequence 1378, Ap
1274	382.5	67.8	252	15	US-10-293-418-1378	Sequence 1378, Ap
1275	382.5	67.8	254	10	US-09-880-748-1709	Sequence 1709, Ap
1276	382.5	67.8	254	15	US-10-293-418-1709	Sequence 1709, Ap
1277	382	67.7	248	14	US-10-151-882-17	Sequence 17, Appl
1278	381.5	67.6	111	14	US-10-269-805-54	Sequence 54, Appl
1279	381.5	67.6	111	17	US-10-727-155-168	Sequence 168, App
1280	381.5	67.6	247	10	US-09-880-748-2076	Sequence 2076, Ap
1281	381.5	67.6	247	15	US-10-293-418-2076	Sequence 2076, Ap
1282	381.5	67.6	251	10	US-09-880-748-1020	Sequence 1020, Ap
1283	381.5	67.6	251	15	US-10-293-418-1020	Sequence 1020, Ap
1284	381.5	67.6	254	10	US-09-880-748-1489	Sequence 1489, Ap
1285	381.5	67.6	254	15	US-10-293-418-1489	Sequence 1489, Ap
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1287	381.5	67.6	255	15	US-10-293-418-1862	Sequence 1862, Ap
1288	381.5	67.6	291	15	US-10-406-830-1	Sequence 1, Appli
1289	381.5	67.6	291	15	US-10-406-830-2	Sequence 2, Appli
1290	381	67.6	114	10	US-09-848-798-62	Sequence 62, Appl
1291	381	67.6	244	10	US-09-880-748-1568	Sequence 1568, Ap
1292	381	67.6	244	15	US-10-293-418-1568	Sequence 1568, Ap
1293	381	67.6	257	10	US-09-880-748-1256	Sequence 1256, Ap
1294	381	67.6	257	15	US-10-293-418-1256	Sequence 1256, Ap
1295	380.5	67.5	249	10	US-09-880-748-1968	Sequence 1968, Ap
1296	380.5	67.5	249	15	US-10-293-418-1968	Sequence 1968, Ap
1297	380.5	67.5	250	10	US-09-880-748-1212	Sequence 1212, Ap
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1300	380.5	67.5	251	10	US-09-880-748-1831	Sequence 1831, Ap
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1304	380	67.4	94	16	US-10-803-653-176	Sequence 176, App
1305	380	67.4	247	10	US-09-880-748-1885	Sequence 1885, Ap
1306	380	67.4	247	15	US-10-293-418-1885	Sequence 1885, Ap
1307	380	67.4	248	14	US-10-151-882-19	Sequence 19, Appl
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1312	380	67.4	249	15	US-10-293-418-1572	Sequence 1572, Ap
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1315	380	67.4	250	10	US-09-880-748-1566	Sequence 1566, Ap
1316	380	67.4	250	15	US-10-293-418-1565	Sequence 1565, Ap
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1321	379.5	67.3	249	10	US-09-880-748-1984	Sequence 1984, Ap
1322	379.5	67.3	249	15	US-10-293-418-1984	Sequence 1984, Ap
1323	379.5	67.3	251	10	US-09-880-748-1225	Sequence 1225, Ap
1324	379.5	67.3	251	15	US-10-293-418-1225	Sequence 1225, Ap
1325	379.5	67.3	257	10	US-09-880-748-869	Sequence 869, App
1326	379.5	67.3	257	15	US-10-293-418-869	Sequence 869, App
1327	379.5	67.3	259	10	US-09-880-748-1275	Sequence 1275, Ap
1328	379.5	67.3	259	15	US-10-293-418-1275	Sequence 1275, Ap
1329	379	67.2	238	16	US-10-779-461-1	Sequence 1, Appli
1330	379	67.2	244	14	US-10-139-785-44	Sequence 44, Appl
1331	379	67.2	249	10	US-09-880-748-1142	Sequence 1142, Ap
1332	379	67.2	249	15	US-10-293-418-1142	Sequence 1142, Ap
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1335	378.5	67.1	243	15	US-10-293-418-1969	Sequence 1969, Ap
1336	378.5	67.1	259	10	US-09-880-748-1025	Sequence 1025, Ap
1337	378.5	67.1	259	15	US-10-293-418-1025	Sequence 1025, Ap
1338	378	67.0	251	10	US-09-880-748-1343	Sequence 1343, Ap
1339	378	67.0	251	15	US-10-293-418-1343	Sequence 1343, Ap
1340	378	67.0	255	10	US-09-880-748-1281	Sequence 1281, Ap
1341	378	67.0	255	15	US-10-293-418-1281	Sequence 1281, Ap
1342	377.5	66.9	109	16	US-10-779-461-160	Sequence 160, App
1343	377.5	66.9	247	16	US-10-779-461-44	Sequence 44, Appl
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1345	377	66.8	242	15	US-10-293-418-1949	Sequence 1949, Ap
1346	377	66.8	252	10	US-09-880-748-1144	Sequence 1144, Ap
1347	377	66.8	252	10	US-09-880-748-1537	Sequence 1537, Ap
1348	377	66.8	252	15	US-10-293-418-1144	Sequence 1144, Ap
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1353	377	66.8	260	15	US-10-293-418-1282	Sequence 1282, Ap
1354	376.5	66.8	252	10	US-09-880-748-1861	Sequence 1861, Ap
1355	376.5	66.8	252	10	US-09-880-748-2100	Sequence 2100, Ap
1356	376.5	66.8	252	15	US-10-293-418-1861	Sequence 1861, Ap
1357	376.5	66.8	252	15	US-10-293-418-2100	Sequence 2100, Ap
1358	376.5	66.8	253	10	US-09-880-748-1951	Sequence 1951, Ap
1359	376.5	66.8	253	15	US-10-293-418-1951	Sequence 1951, Ap
1360	376.5	66.8	259	10	US-09-880-748-864	Sequence 864, App
1361	376.5	66.8	259	10	US-09-880-748-1262	Sequence 1262, Ap
1362	376.5	66.8	259	10	US-09-880-748-1263	Sequence 1263, Ap
1363	376.5	66.8	259	15	US-10-293-418-864	Sequence 864, App
1364	376.5	66.8	259	15	US-10-293-418-1262	Sequence 1262, Ap
1365	376.5	66.8	259	15	US-10-293-418-1263	Sequence 1263, Ap
1366	376	66.7	244	16	US-10-779-461-4	Sequence 4, Appli
1367	376	66.7	253	14	US-10-120-414-76	Sequence 76, Appl
1368	376	66.7	256	10	US-09-880-748-1285	Sequence 1285, Ap
1369	376	66.7	256	15	US-10-293-418-1285	Sequence 1285, Ap
1370	375.5	66.6	111	17	US-10-727-155-200	Sequence 200, App
1371	375.5	66.6	112	16	US-10-884-830-34	Sequence 34, Appl
1372	375.5	66.6	112	16	US-10-884-830-38	Sequence 38, Appl
1373	375.5	66.6	245	10	US-09-880-748-1516	Sequence 1516, Ap
1374	375.5	66.6	245	15	US-10-293-418-1516	Sequence 1516, Ap
1375	375.5	66.6	246	17	US-10-855-755-1	Sequence 1, Appli
1376	375.5	66.6	246	17	US-10-935-290-78	Sequence 78, Appl
1377	375.5	66.6	249	10	US-09-880-748-1272	Sequence 1272, Ap
1378	375.5	66.6	249	15	US-10-293-418-1272	Sequence 1272, Ap
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1380	375.5	66.6	252	15	US-10-293-418-1518	Sequence 1518, Ap
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1382	375.5	66.6	253	10	US-09-880-748-934	Sequence 934, App
1383	375.5	66.6	253	15	US-10-293-418-858	Sequence 858, App
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1385	375.5	66.6	254	10	US-09-880-748-1136	Sequence 1136, Ap
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1387	375.5	66.6	254	10	US-09-880-748-1448	Sequence 1448, Ap
1388	375.5	66.6	254	10	US-09-880-748-1961	Sequence 1961, Ap
1389	375.5	66.6	254	15	US-10-293-418-1136	Sequence 1136, Ap
1390	375.5	66.6	254	15	US-10-293-418-1165	Sequence 1165, Ap
1391	375.5	66.6	254	15	US-10-293-418-1448	Sequence 1448, Ap
1392	375.5	66.6	254	15	US-10-293-418-1961	Sequence 1961, Ap
1393	375.5	66.6	255	10	US-09-880-748-1504	Sequence 1504, Ap
1394	375.5	66.6	255	15	US-10-293-418-1504	Sequence 1504, Ap
1395	375	66.5	110	17	US-10-727-155-309	Sequence 309, App
1396	375	66.5	110	17	US-10-727-155-311	Sequence 311, App
1397	375	66.5	243	14	US-10-322-673-53	Sequence 53, Appl
1398	375	66.5	247	10	US-09-880-748-2126	Sequence 2126, Ap
1399	375	66.5	247	15	US-10-293-418-2126	Sequence 2126, Ap
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1402	375	66.5	251	15	US-10-293-418-1542	Sequence 1542, Ap
1403	375	66.5	251	15	US-10-293-418-2128	Sequence 2128, Ap
1404	375	66.5	251	17	US-10-935-290-127	Sequence 127, App
1405	375	66.5	252	10	US-09-880-748-1495	Sequence 1495, Ap
1406	375	66.5	252	15	US-10-293-418-1495	Sequence 1495, Ap
1407	375	66.5	258	10	US-09-880-748-1260	Sequence 1260, Ap
1408	375	66.5	258	15	US-10-293-418-1260	Sequence 1260, Ap
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1413	374.5	66.4	250	15	US-10-293-418-2095	Sequence 2095, Ap
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SUMMARIES

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2	559	99.1	244	4	US-09-138-091A-77	Sequence 77, Appl
3	526	93.3	112	3	US-09-025-769B-19	Sequence 19, Appl
4	526	93.3	112	4	US-09-490-070A-19	Sequence 19, Appl
5	526	93.3	112	4	US-09-490-153-19	Sequence 19, Appl
6	526	93.3	112	4	US-09-490-324-19	Sequence 19, Appl
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167	325.5	57.7	106	1	US-08-477-484B-155	Sequence 155, App
168	325.5	57.7	106	1	US-08-107-669D-19	Sequence 19, Appl
169	325.5	57.7	106	1	US-08-472-788A-19	Sequence 19, Appl
170	325.5	57.7	106	2	US-08-477-531B-19	Sequence 19, Appl
171	325.5	57.7	106	2	US-08-646-360-155	Sequence 155, App
172	325.5	57.7	106	2	US-08-082-842A-19	Sequence 19, Appl
173	325.5	57.7	106	3	US-08-839-765-155	Sequence 155, App
174	325.5	57.7	106	3	US-09-136-389-155	Sequence 155, App
175	325.5	57.7	106	3	US-09-610-838-155	Sequence 155, App
176	325.5	57.7	106	4	US-09-711-485-155	Sequence 155, App
177	324	57.4	234	3	US-08-487-550-2	Sequence 2, Appli
178	324	57.4	234	4	US-09-526-098-2	Sequence 2, Appli
179	324	57.4	234	4	US-09-383-916-2	Sequence 2, Appli
180	321	56.9	111	4	US-09-424-840B-4	Sequence 4, Appli
181	319	56.6	278	3	US-09-260-527-3	Sequence 3, Appli
182	319	56.6	280	3	US-09-260-527-1	Sequence 1, Appli
183	319	56.6	309	3	US-09-079-029-9	Sequence 9, Appli
184	319	56.6	312	3	US-09-079-029-10	Sequence 10, Appl
185	318	56.4	120	4	US-09-471-276-972	Sequence 972, App
186	317.5	56.3	105	1	US-08-488-113B-157	Sequence 157, App
187	317.5	56.3	105	1	US-08-477-484B-157	Sequence 157, App
188	317.5	56.3	105	1	US-08-107-669D-21	Sequence 21, Appl
189	317.5	56.3	105	1	US-08-472-788A-21	Sequence 21, Appl
190	317.5	56.3	105	2	US-08-477-531B-21	Sequence 21, Appl
191	317.5	56.3	105	2	US-08-646-360-157	Sequence 157, App
192	317.5	56.3	105	2	US-08-082-842A-21	Sequence 21, Appl
193	317.5	56.3	105	3	US-08-839-765-157	Sequence 157, App
194	317.5	56.3	105	3	US-09-136-389-157	Sequence 157, App
195	317.5	56.3	105	3	US-09-610-838-157	Sequence 157, App
196	317.5	56.3	105	4	US-09-711-485-157	Sequence 157, App
197	317	56.2	105	4	US-09-232-290-30	Sequence 30, Appl
198	317	56.2	111	4	US-09-203-768A-8	Sequence 8, Appli
199	316	56.0	104	2	US-08-273-146-63	Sequence 63, Appl
200	315.5	55.9	96	1	US-08-488-113B-158	Sequence 158, App
201	315.5	55.9	96	1	US-08-477-484B-158	Sequence 158, App
202	315.5	55.9	96	1	US-08-107-669D-22	Sequence 22, Appl
203	315.5	55.9	96	1	US-08-472-788A-22	Sequence 22, Appl
204	315.5	55.9	96	2	US-08-477-531B-22	Sequence 22, Appl
205	315.5	55.9	96	2	US-08-646-360-158	Sequence 158, App
206	315.5	55.9	96	2	US-08-082-842A-22	Sequence 22, Appl
207	315.5	55.9	96	3	US-08-839-765-158	Sequence 158, App
208	315.5	55.9	96	3	US-09-136-389-158	Sequence 158, App
209	315.5	55.9	96	3	US-09-610-838-158	Sequence 158, App
210	315.5	55.9	96	4	US-09-711-485-158	Sequence 158, App
211	315.5	55.9	270	4	US-09-976-118-2	Sequence 2, Appli
212	314.5	55.8	104	3	US-08-793-450-2	Sequence 2, Appli
213	314.5	55.8	143	2	US-08-345-321-8	Sequence 8, Appli
214	314.5	55.8	238	3	US-08-793-450-6	Sequence 6, Appli
215	314	55.7	108	1	US-08-259-372A-10	Sequence 10, Appl
216	314	55.7	108	1	US-08-468-671-10	Sequence 10, Appl
217	313	55.5	108	4	US-09-720-493-4	Sequence 4, Appli
218	308.5	54.7	124	3	US-08-751-359-14	Sequence 14, Appl
219	308.5	54.7	124	3	US-08-907-146-14	Sequence 14, Appl
220	308	54.6	235	4	US-09-152-060-70	Sequence 70, Appl
221	308	54.6	235	4	US-09-152-060-88	Sequence 88, Appl
222	307.5	54.5	109	2	US-08-665-202-34	Sequence 34, Appl
223	307.5	54.5	109	4	US-09-315-574-34	Sequence 34, Appl
224	307	54.4	128	1	US-08-478-039-110	Sequence 110, App
225	307	54.4	128	1	US-08-476-349A-110	Sequence 110, App
226	307	54.4	128	3	US-08-523-894-4	Sequence 4, Appli
227	307	54.4	233	3	US-08-523-894-6	Sequence 6, Appli
228	305	54.1	240	3	US-09-049-672A-11	Sequence 11, Appl
229	303	53.7	109	3	US-09-202-181-2	Sequence 2, Appli
230	302	53.5	109	1	US-08-478-039-92	Sequence 92, Appl
231	302	53.5	109	1	US-08-476-349A-92	Sequence 92, Appl
232	301	53.4	229	3	US-08-751-359-22	Sequence 22, Appl
233	301	53.4	229	3	US-08-907-146-22	Sequence 22, Appl
234	299	53.0	122	4	US-09-424-840B-28	Sequence 28, Appl
235	297	52.7	104	3	US-09-240-274-49	Sequence 49, Appl
236	295	52.3	109	2	US-08-652-816A-16	Sequence 16, Appl
237	294	52.1	106	3	US-09-240-274-48	Sequence 48, Appl
238	293.5	52.0	104	4	US-10-083-424-40	Sequence 40, Appl
239	293.5	52.0	108	3	US-09-240-274-66	Sequence 66, Appl
240	293	52.0	106	3	US-09-240-274-47	Sequence 47, Appl
241	291.5	51.7	126	3	US-08-751-359-11	Sequence 11, Appl
242	291.5	51.7	126	3	US-08-907-146-11	Sequence 11, Appl
243	291	51.6	103	2	US-08-273-146-71	Sequence 71, Appl
244	291	51.6	152	4	US-09-471-276-855	Sequence 855, App
245	289	51.2	108	4	US-10-083-424-26	Sequence 26, Appl
246	288.5	51.2	102	4	US-09-726-219A-174	Sequence 174, App

247	288	51.1	106	3	US-09-240-274-50	Sequence 50, Appl
248	286.5	50.8	216	4	US-09-291-299A-8	Sequence 8, Appli
249	284	50.4	217	4	US-09-291-299A-7	Sequence 7, Appli
250	282.5	50.1	100	1	US-08-488-113B-154	Sequence 154, App
251	282.5	50.1	100	1	US-08-477-484B-154	Sequence 154, App
252	282.5	50.1	100	1	US-08-107-669D-18	Sequence 18, Appl
253	282.5	50.1	100	1	US-08-472-788A-18	Sequence 18, Appl
254	282.5	50.1	100	2	US-08-477-531B-18	Sequence 18, Appl
255	282.5	50.1	100	2	US-08-646-360-154	Sequence 154, App
256	282.5	50.1	100	2	US-08-082-842A-18	Sequence 18, Appl
257	282.5	50.1	100	3	US-08-839-765-154	Sequence 154, App
258	282.5	50.1	100	3	US-09-136-389-154	Sequence 154, App
259	282.5	50.1	100	3	US-09-610-838-154	Sequence 154, App
260	282.5	50.1	100	4	US-09-711-485-154	Sequence 154, App
261	280.5	49.7	101	4	US-09-726-219A-168	Sequence 168, App
262	277.5	49.2	105	4	US-10-083-424-32	Sequence 32, Appl
263	276.5	49.0	263	3	US-09-069-821-3	Sequence 3, Appli
264	276.5	49.0	263	4	US-09-956-086-3	Sequence 3, Appli
265	276.5	49.0	263	4	US-09-956-087-3	Sequence 3, Appli
266	276.5	49.0	283	3	US-09-420-592A-6	Sequence 6, Appli
267	276.5	49.0	283	4	US-09-985-442-6	Sequence 6, Appli
268	276.5	49.0	283	4	US-09-983-580-6	Sequence 6, Appli
269	274	48.6	125	4	US-09-471-276-1249	Sequence 1249, Ap
270	273	48.4	64	2	US-08-765-179B-19	Sequence 19, Appl
271	272.5	48.3	97	2	US-08-665-202-35	Sequence 35, Appl
272	272.5	48.3	97	4	US-09-315-574-35	Sequence 35, Appl
273	271	48.0	104	3	US-08-479-089A-5	Sequence 5, Appli
274	271	48.0	104	3	US-08-479-089A-6	Sequence 6, Appli
275	271	48.0	104	4	US-07-669-545B-5	Sequence 5, Appli
276	271	48.0	104	4	US-07-669-545B-6	Sequence 6, Appli
277	271	48.0	113	1	US-08-690-102A-6	Sequence 6, Appli
278	271	48.0	113	3	US-09-127-902-6	Sequence 6, Appli
279	271	48.0	113	3	US-09-155-107-6	Sequence 6, Appli
280	271	48.0	113	5	PCT-US95-09641-6	Sequence 6, Appli
281	271	48.0	125	3	US-08-751-359-13	Sequence 13, Appl
282	271	48.0	125	3	US-08-907-146-13	Sequence 13, Appl
283	270.5	48.0	109	2	US-08-561-521-42	Sequence 42, Appl
284	270.5	48.0	109	3	US-09-357-710A-21	Sequence 21, Appl
285	270.5	48.0	109	4	US-09-357-707-21	Sequence 21, Appl
286	270.5	48.0	109	4	US-09-357-708-21	Sequence 21, Appl
287	270.5	48.0	109	5	PCT-US95-01219-42	Sequence 42, Appl
288	270	47.9	110	2	US-08-362-780-26	Sequence 26, Appl
289	269.5	47.8	126	3	US-08-751-359-12	Sequence 12, Appl
290	269.5	47.8	126	3	US-08-907-146-12	Sequence 12, Appl
291	268	47.5	108	4	US-09-726-219A-242	Sequence 242, App
292	266.5	47.3	106	4	US-09-232-290-24	Sequence 24, Appl
293	266.5	47.3	127	3	US-08-836-561-71	Sequence 71, Appl
294	266.5	47.3	127	4	US-09-434-122-71	Sequence 71, Appl
295	266	47.2	108	4	US-10-083-424-30	Sequence 30, Appl
296	266	47.2	130	4	US-09-393-385B-111	Sequence 111, App
297	265.5	47.1	107	3	US-09-240-274-38	Sequence 38, Appl
298	265.5	47.1	107	3	US-09-240-274-39	Sequence 39, Appl
299	265.5	47.1	110	3	US-08-836-561-33	Sequence 33, Appl
300	265.5	47.1	110	4	US-09-434-122-33	Sequence 33, Appl
301	265	47.0	126	2	US-08-656-586-6	Sequence 6, Appli
302	265	47.0	244	2	US-08-553-497A-20	Sequence 20, Appl
303	264	46.8	108	1	US-08-202-047-24	Sequence 24, Appl
304	264	46.8	108	3	US-08-964-690-24	Sequence 24, Appl
305	264	46.8	109	3	US-08-783-853A-95	Sequence 95, Appl
306	264	46.8	109	3	US-09-344-050-95	Sequence 95, Appl
307	264	46.8	129	3	US-08-783-853A-99	Sequence 99, Appl
308	264	46.8	129	3	US-09-344-050-99	Sequence 99, Appl
309	263.5	46.7	106	1	US-08-276-852-83	Sequence 83, Appl
310	263.5	46.7	106	1	US-08-899-575-83	Sequence 83, Appl
311	263.5	46.7	106	1	US-08-899-575-83	Sequence 83, Appl
312	263.5	46.7	106	5	PCT-US95-08743-83	Sequence 83, Appl
313	263.5	46.7	107	3	US-09-240-274-158	Sequence 158, App
314	263.5	46.7	216	4	US-09-291-299A-10	Sequence 10, Appl
315	263	46.6	104	4	US-10-083-424-28	Sequence 28, Appl
316	263	46.6	108	4	US-09-726-219A-252	Sequence 252, App
317	263	46.6	130	4	US-09-393-385B-113	Sequence 113, App
318	262.5	46.5	107	1	US-08-276-852-84	Sequence 84, Appl
319	262.5	46.5	107	1	US-08-899-575-84	Sequence 84, Appl
320	262.5	46.5	107	1	US-08-899-575-84	Sequence 84, Appl
321	262.5	46.5	107	2	US-08-652-558-36	Sequence 36, Appl
322	262.5	46.5	107	2	US-08-378-939-14	Sequence 14, Appl
323	262.5	46.5	107	5	PCT-US95-08743-84	Sequence 84, Appl
324	262.5	46.5	108	3	US-09-025-769B-14	Sequence 14, Appl
325	262.5	46.5	108	4	US-09-490-070A-14	Sequence 14, Appl
326	262.5	46.5	108	4	US-09-490-153-14	Sequence 14, Appl
327	262.5	46.5	108	4	US-09-490-324-14	Sequence 14, Appl
328	262.5	46.5	109	3	US-09-199-149-8	Sequence 8, Appli
329	262.5	46.5	216	4	US-09-291-299A-9	Sequence 9, Appli
330	262.5	46.5	219	1	US-08-353-400-34	Sequence 34, Appl
331	262.5	46.5	239	1	US-08-353-400-37	Sequence 37, Appl
332	262.5	46.5	288	3	US-09-423-439-38	Sequence 38, Appl
333	262.5	46.5	673	3	US-09-423-439-32	Sequence 32, Appl
334	262	46.5	110	3	US-09-672-609-16	Sequence 16, Appl
335	262	46.5	110	4	US-09-025-403A-16	Sequence 16, Appl
336	262	46.5	110	4	US-09-726-219A-257	Sequence 257, App
337	261.5	46.4	111	2	US-08-887-352B-7	Sequence 7, Appli
338	261.5	46.4	111	3	US-09-109-207C-7	Sequence 7, Appli
339	261.5	46.4	111	3	US-09-296-005-7	Sequence 7, Appli
340	261.5	46.4	111	4	US-09-920-171-7	Sequence 7, Appli
341	261.5	46.4	111	4	US-09-716-028-7	Sequence 7, Appli
342	261.5	46.4	111	4	US-10-113-996-7	Sequence 7, Appli
343	261.5	46.4	213	2	US-08-737-129A-4	Sequence 4, Appli
344	261	46.3	106	1	US-07-634-278-58	Sequence 58, Appl
345	261	46.3	106	1	US-08-477-728-58	Sequence 58, Appl
346	261	46.3	106	1	US-08-474-040-58	Sequence 58, Appl
347	261	46.3	106	1	US-08-487-200-58	Sequence 58, Appl
348	261	46.3	106	2	US-08-290-592E-35	Sequence 35, Appl
349	261	46.3	106	3	US-08-484-537-58	Sequence 58, Appl
350	261	46.3	106	5	PCT-US95-10053-32	Sequence 32, Appl
351	261	46.3	106	5	PCT-US96-09448-35	Sequence 35, Appl
352	261	46.3	108	4	US-09-726-219A-240	Sequence 240, App
353	261	46.3	128	1	US-07-634-278-31	Sequence 31, Appl
354	261	46.3	128	1	US-08-477-728-31	Sequence 31, Appl
355	261	46.3	128	1	US-08-474-040-31	Sequence 31, Appl
356	261	46.3	128	1	US-08-487-200-31	Sequence 31, Appl
357	261	46.3	128	3	US-08-484-537-31	Sequence 31, Appl
358	260.5	46.2	107	1	US-07-942-245-3	Sequence 3, Appli
359	260.5	46.2	107	2	US-08-652-558-2	Sequence 2, Appli
360	260.5	46.2	107	3	US-08-599-226-1	Sequence 1, Appli
361	260.5	46.2	107	3	US-09-125-098-1	Sequence 1, Appli
362	260.5	46.2	107	4	US-09-540-018-1	Sequence 1, Appli
363	260.5	46.2	108	2	US-08-379-057-29	Sequence 29, Appl
364	260.5	46.2	245	3	US-08-918-148-76	Sequence 76, Appl
365	260.5	46.2	245	4	US-09-138-091A-74	Sequence 74, Appl
366	260	46.1	107	2	US-08-070-116A-8	Sequence 8, Appli
367	260	46.1	107	2	US-08-116-247-26	Sequence 26, Appl
368	260	46.1	107	3	US-08-783-853A-44	Sequence 44, Appl
369	260	46.1	107	3	US-09-344-050-44	Sequence 44, Appl
370	260	46.1	107	4	US-08-557-050-8	Sequence 8, Appli
371	260	46.1	107	4	US-09-348-224-26	Sequence 26, Appl
372	260	46.1	109	2	US-08-553-497A-14	Sequence 14, Appl
373	260	46.1	110	3	US-09-672-609-15	Sequence 15, Appl
374	260	46.1	110	3	US-09-672-609-17	Sequence 17, Appl
375	260	46.1	110	4	US-09-025-403A-15	Sequence 15, Appl
376	260	46.1	110	4	US-09-025-403A-17	Sequence 17, Appl
377	260	46.1	110	4	US-09-726-219A-250	Sequence 250, App
378	260	46.1	113	3	US-09-155-107-20	Sequence 20, Appl
379	260	46.1	246	2	US-08-553-497A-24	Sequence 24, Appl
380	259.5	46.0	106	3	US-08-783-853A-105	Sequence 105, App
381	259.5	46.0	106	3	US-09-344-050-105	Sequence 105, App
382	259.5	46.0	107	1	US-08-276-852-105	Sequence 105, App
383	259.5	46.0	107	1	US-08-899-575-105	Sequence 105, App
384	259.5	46.0	107	1	US-08-899-575-105	Sequence 105, App
385	259.5	46.0	107	3	US-08-783-853A-11	Sequence 11, Appl
386	259.5	46.0	107	3	US-09-344-050-11	Sequence 11, Appl
387	259.5	46.0	107	5	PCT-US95-08743-105	Sequence 105, App
388	259.5	46.0	108	2	US-08-652-816A-2	Sequence 2, Appli
389	259.5	46.0	108	2	US-08-652-816A-17	Sequence 17, Appl
390	259.5	46.0	108	3	US-09-240-274-51	Sequence 51, Appl
391	259.5	46.0	108	3	US-09-240-274-52	Sequence 52, Appl
392	259.5	46.0	112	3	US-08-783-853A-103	Sequence 103, App

393	259.5	46.0	112	3	US-09-344-050-103	Sequence 103, App
394	259.5	46.0	114	2	US-08-428-257A-80	Sequence 80, Appl
395	259.5	46.0	114	3	US-07-987-264-62	Sequence 62, Appl
396	259.5	46.0	491	4	US-10-011-125A-2	Sequence 2, Appli
397	259	45.9	106	3	US-08-397-411-8	Sequence 8, Appli
398	259	45.9	106	4	US-09-996-288-54	Sequence 54, Appl
399	259	45.9	107	1	US-08-276-852-87	Sequence 87, Appl
400	259	45.9	107	1	US-08-899-575-87	Sequence 87, Appl
401	259	45.9	107	1	US-08-899-575-87	Sequence 87, Appl
402	259	45.9	107	5	PCT-US95-08743-87	Sequence 87, Appl
403	259	45.9	112	4	US-08-435-516-28	Sequence 28, Appl
404	259	45.9	114	2	US-08-561-521-43	Sequence 43, Appl
405	259	45.9	114	5	PCT-US95-01219-43	Sequence 43, Appl
406	259	45.9	129	2	US-08-116-778E-2	Sequence 2, Appli
407	259	45.9	129	2	US-08-438-562-2	Sequence 2, Appli
408	259	45.9	129	2	US-08-483-528B-92	Sequence 92, Appl
409	259	45.9	213	3	US-08-397-411-12	Sequence 12, Appl
410	259	45.9	219	3	US-09-027-449-72	Sequence 72, Appl
411	259	45.9	219	3	US-09-026-985-72	Sequence 72, Appl
412	259	45.9	219	4	US-09-121-952A-72	Sequence 72, Appl
413	259	45.9	219	4	US-09-234-340A-72	Sequence 72, Appl
414	259	45.9	242	3	US-09-027-449-51	Sequence 51, Appl
415	259	45.9	242	3	US-09-027-449-56	Sequence 56, Appl
416	259	45.9	242	3	US-09-027-449-62	Sequence 62, Appl
417	259	45.9	242	3	US-08-804-444A-51	Sequence 51, Appl
418	259	45.9	242	3	US-08-804-444A-56	Sequence 56, Appl
419	259	45.9	242	3	US-09-026-985-51	Sequence 51, Appl
420	259	45.9	242	3	US-09-026-985-56	Sequence 56, Appl
421	259	45.9	242	3	US-09-026-985-62	Sequence 62, Appl
422	259	45.9	242	4	US-09-121-952A-51	Sequence 51, Appl
423	259	45.9	242	4	US-09-121-952A-56	Sequence 56, Appl
424	259	45.9	242	4	US-09-121-952A-62	Sequence 62, Appl
425	259	45.9	242	4	US-09-234-340A-51	Sequence 51, Appl
426	259	45.9	242	4	US-09-234-340A-56	Sequence 56, Appl
427	259	45.9	242	4	US-09-234-340A-62	Sequence 62, Appl
428	258.5	45.8	100	2	US-08-308-494A-15	Sequence 15, Appl
429	258.5	45.8	106	1	US-08-276-852-85	Sequence 85, Appl
430	258.5	45.8	106	1	US-08-899-575-85	Sequence 85, Appl
431	258.5	45.8	106	1	US-08-899-575-85	Sequence 85, Appl
432	258.5	45.8	106	5	PCT-US95-08743-85	Sequence 85, Appl
433	258	45.7	107	4	US-08-635-109-7	Sequence 7, Appli
434	258	45.7	107	4	US-08-844-215-10	Sequence 10, Appl
435	258	45.7	108	4	US-09-726-219A-253	Sequence 253, App
436	258	45.7	112	1	US-07-942-245-30	Sequence 30, Appl
437	258	45.7	112	4	US-08-435-516-4	Sequence 4, Appli
438	258	45.7	113	1	US-08-690-102A-2	Sequence 2, Appli
439	258	45.7	113	3	US-09-127-902-2	Sequence 2, Appli
440	258	45.7	113	3	US-09-155-107-2	Sequence 2, Appli
441	258	45.7	113	5	PCT-US95-09641-2	Sequence 2, Appli
442	258	45.7	119	3	US-09-184-658-33	Sequence 33, Appl
443	258	45.7	119	4	US-09-504-262D-33	Sequence 33, Appl
444	258	45.7	129	5	PCT-US95-07372-12	Sequence 12, Appl
445	258	45.7	278	3	US-09-184-658-47	Sequence 47, Appl
446	258	45.7	278	4	US-09-504-262D-47	Sequence 47, Appl
447	258	45.7	284	3	US-09-184-658-40	Sequence 40, Appl
448	258	45.7	284	4	US-09-504-262D-40	Sequence 40, Appl
449	258	45.7	301	2	US-08-661-052-14	Sequence 14, Appl
450	258	45.7	301	3	US-09-188-082-14	Sequence 14, Appl
451	258	45.7	301	3	US-09-364-088-14	Sequence 14, Appl
452	258	45.7	301	3	US-09-102-716-14	Sequence 14, Appl
453	258	45.7	352	4	US-09-203-958A-2	Sequence 2, Appli
454	258	45.7	553	2	US-08-661-052-16	Sequence 16, Appl
455	258	45.7	553	3	US-09-188-082-16	Sequence 16, Appl
456	258	45.7	553	3	US-09-364-088-16	Sequence 16, Appl
457	258	45.7	553	3	US-09-102-716-16	Sequence 16, Appl
458	257.5	45.7	107	1	US-08-276-852-104	Sequence 104, App
459	257.5	45.7	107	1	US-08-899-575-104	Sequence 104, App
460	257.5	45.7	107	1	US-08-899-575-104	Sequence 104, App
461	257.5	45.7	107	5	PCT-US95-08743-104	Sequence 104, App
462	257.5	45.7	109	3	US-09-425-638A-43	Sequence 43, Appl
463	257.5	45.7	109	3	US-09-425-638A-45	Sequence 45, Appl
464	257.5	45.7	109	3	US-09-543-004-43	Sequence 43, Appl
465	257.5	45.7	109	3	US-09-543-004-45	Sequence 45, Appl
466	257.5	45.7	126	3	US-08-646-265A-65	Sequence 65, Appl
467	257	45.6	109	2	US-08-378-939-38	Sequence 38, Appl
468	257	45.6	133	2	US-08-116-778E-37	Sequence 37, Appl
469	257	45.6	133	2	US-08-438-562-37	Sequence 37, Appl
470	257	45.6	133	2	US-08-483-528B-101	Sequence 101, App
471	257	45.6	144	4	US-09-318-786-29	Sequence 29, Appl
472	257	45.6	241	4	US-09-581-345-5	Sequence 5, Appli
473	256.5	45.5	107	1	US-08-276-852-108	Sequence 108, App
474	256.5	45.5	107	1	US-08-899-575-108	Sequence 108, App
475	256.5	45.5	107	1	US-08-899-575-108	Sequence 108, App
476	256.5	45.5	107	3	US-08-599-226-9	Sequence 9, Appli
477	256.5	45.5	107	3	US-09-254-189-1	Sequence 1, Appli
478	256.5	45.5	107	3	US-09-240-274-156	Sequence 156, App
479	256.5	45.5	107	3	US-09-240-274-179	Sequence 179, App
480	256.5	45.5	107	3	US-09-125-098-9	Sequence 9, Appli
481	256.5	45.5	107	4	US-09-540-018-9	Sequence 9, Appli
482	256.5	45.5	107	5	PCT-US95-08743-108	Sequence 108, App
483	256.5	45.5	108	2	US-08-652-816A-53	Sequence 53, Appl
484	256.5	45.5	108	3	US-08-983-607-37	Sequence 37, Appl
485	256.5	45.5	127	4	US-09-809-739-10	Sequence 10, Appl
486	256.5	45.5	130	1	US-08-137-117D-86	Sequence 86, Appl
487	256.5	45.5	130	2	US-08-436-717-86	Sequence 86, Appl
488	256	45.4	106	1	US-07-634-278-35	Sequence 35, Appl
489	256	45.4	106	1	US-07-634-278-59	Sequence 59, Appl
490	256	45.4	106	1	US-08-477-728-35	Sequence 35, Appl
491	256	45.4	106	1	US-08-477-728-59	Sequence 59, Appl
492	256	45.4	106	1	US-08-474-040-35	Sequence 35, Appl
493	256	45.4	106	1	US-08-474-040-59	Sequence 59, Appl
494	256	45.4	106	1	US-08-487-200-35	Sequence 35, Appl
495	256	45.4	106	1	US-08-487-200-59	Sequence 59, Appl
496	256	45.4	106	2	US-08-652-558-1	Sequence 1, Appli
497	256	45.4	106	3	US-08-484-537-35	Sequence 35, Appl
498	256	45.4	106	3	US-08-484-537-59	Sequence 59, Appl
499	256	45.4	106	4	US-09-771-415-1	Sequence 1, Appli
500	256	45.4	106	4	US-09-996-288-11	Sequence 11, Appl
501	256	45.4	106	4	US-09-996-288-57	Sequence 57, Appl
502	256	45.4	106	4	US-09-996-288-70	Sequence 70, Appl
503	256	45.4	109	2	US-08-602-725-30	Sequence 30, Appl
504	256	45.4	110	4	US-09-726-219A-247	Sequence 247, App
505	256	45.4	213	4	US-09-996-288-231	Sequence 231, App
506	255.5	45.3	105	1	US-08-211-202-110	Sequence 110, App
507	255.5	45.3	107	1	US-08-276-852-107	Sequence 107, App
508	255.5	45.3	107	1	US-08-899-575-107	Sequence 107, App
509	255.5	45.3	107	1	US-08-899-575-107	Sequence 107, App
510	255.5	45.3	107	5	PCT-US95-08743-107	Sequence 107, App
511	255.5	45.3	108	2	US-08-652-816A-18	Sequence 18, Appl
512	255.5	45.3	108	4	US-09-232-290-2	Sequence 2, Appli
513	255.5	45.3	111	2	US-08-887-352B-6	Sequence 6, Appli
514	255.5	45.3	111	3	US-09-109-207C-6	Sequence 6, Appli
515	255.5	45.3	111	3	US-09-296-005-6	Sequence 6, Appli
516	255.5	45.3	111	4	US-09-920-171-6	Sequence 6, Appli
517	255.5	45.3	111	4	US-09-716-028-6	Sequence 6, Appli
518	255.5	45.3	111	4	US-10-113-996-6	Sequence 6, Appli
519	255.5	45.3	114	2	US-08-887-352B-10	Sequence 10, Appl
520	255.5	45.3	114	3	US-09-109-207C-10	Sequence 10, Appl
521	255.5	45.3	114	3	US-09-296-005-10	Sequence 10, Appl
522	255.5	45.3	114	4	US-09-920-171-10	Sequence 10, Appl
523	255.5	45.3	114	4	US-09-716-028-10	Sequence 10, Appl
524	255.5	45.3	114	4	US-10-113-996-10	Sequence 10, Appl
525	255.5	45.3	126	3	US-08-646-265A-75	Sequence 75, Appl
526	255.5	45.3	214	4	US-09-653-755A-5	Sequence 5, Appli
527	255.5	45.3	218	2	US-08-887-352B-13	Sequence 13, Appl
528	255.5	45.3	218	3	US-08-466-151-9	Sequence 9, Appli
529	255.5	45.3	218	3	US-09-109-207C-13	Sequence 13, Appl
530	255.5	45.3	218	3	US-09-296-005-13	Sequence 13, Appl
531	255.5	45.3	218	3	US-08-466-163B-9	Sequence 9, Appli
532	255.5	45.3	218	4	US-09-920-171-13	Sequence 13, Appl
533	255.5	45.3	218	4	US-09-802-096-9	Sequence 9, Appli
534	255.5	45.3	218	4	US-09-802-077-9	Sequence 9, Appli
535	255.5	45.3	218	4	US-09-716-028-13	Sequence 13, Appl
536	255.5	45.3	218	4	US-10-113-996-13	Sequence 13, Appl
537	255.5	45.3	240	4	US-09-192-854-2	Sequence 2, Appli
538	255.5	45.3	265	2	US-08-403-853-16	Sequence 16, Appl

539	255	45.2	106	1	US-08-488-113B-164	Sequence 164, App
540	255	45.2	106	1	US-08-477-484B-164	Sequence 164, App
541	255	45.2	106	1	US-08-107-669D-50	Sequence 50, Appl
542	255	45.2	106	1	US-08-472-788A-50	Sequence 50, Appl
543	255	45.2	106	2	US-08-477-531B-50	Sequence 50, Appl
544	255	45.2	106	2	US-08-646-360-164	Sequence 164, App
545	255	45.2	106	2	US-08-082-842A-50	Sequence 50, Appl
546	255	45.2	106	3	US-08-839-765-164	Sequence 164, App
547	255	45.2	106	3	US-09-136-389-164	Sequence 164, App
548	255	45.2	106	3	US-09-610-838-164	Sequence 164, App
549	255	45.2	106	4	US-09-711-485-164	Sequence 164, App
550	255	45.2	109	2	US-08-308-494A-23	Sequence 23, Appl
551	255	45.2	110	4	US-09-726-219A-254	Sequence 254, App
552	255	45.2	112	2	US-07-916-098A-15	Sequence 15, Appl
553	255	45.2	128	1	US-07-946-421-26	Sequence 26, Appl
554	255	45.2	256	4	US-09-526-738A-2	Sequence 2, Appli
555	255	45.2	258	4	US-09-526-738A-4	Sequence 4, Appli
556	254.5	45.1	107	1	US-08-276-852-82	Sequence 82, Appl
557	254.5	45.1	107	1	US-08-899-575-82	Sequence 82, Appl
558	254.5	45.1	107	1	US-08-899-575-82	Sequence 82, Appl
559	254.5	45.1	107	3	US-09-240-274-37	Sequence 37, Appl
560	254.5	45.1	107	5	PCT-US95-08743-82	Sequence 82, Appl
561	254.5	45.1	108	2	US-08-378-939-18	Sequence 18, Appl
562	254.5	45.1	109	3	US-09-025-769B-28	Sequence 28, Appl
563	254.5	45.1	109	3	US-09-025-769B-43	Sequence 43, Appl
564	254.5	45.1	109	4	US-09-490-070A-28	Sequence 28, Appl
565	254.5	45.1	109	4	US-09-490-070A-43	Sequence 43, Appl
566	254.5	45.1	109	4	US-09-490-153-28	Sequence 28, Appl
567	254.5	45.1	109	4	US-09-490-153-43	Sequence 43, Appl
568	254.5	45.1	109	4	US-09-490-324-28	Sequence 28, Appl
569	254.5	45.1	109	4	US-09-490-324-43	Sequence 43, Appl
570	254.5	45.1	110	4	US-09-440-781-94	Sequence 94, Appl
571	254.5	45.1	113	5	PCT-US93-08435-6	Sequence 6, Appli
572	254.5	45.1	114	2	US-08-887-352B-9	Sequence 9, Appli
573	254.5	45.1	114	3	US-08-929-856-66	Sequence 66, Appl
574	254.5	45.1	114	3	US-08-929-856-189	Sequence 189, App
575	254.5	45.1	114	3	US-09-109-207C-9	Sequence 9, Appli
576	254.5	45.1	114	3	US-09-296-005-9	Sequence 9, Appli
577	254.5	45.1	114	4	US-09-920-171-9	Sequence 9, Appli
578	254.5	45.1	114	4	US-09-716-028-9	Sequence 9, Appli
579	254.5	45.1	114	4	US-10-113-996-9	Sequence 9, Appli
580	254.5	45.1	131	3	US-08-579-378A-18	Sequence 18, Appl
581	254.5	45.1	218	5	PCT-US96-13152-2	Sequence 2, Appli
582	254.5	45.1	240	1	US-08-488-113B-147	Sequence 147, App
583	254.5	45.1	240	1	US-08-477-484B-147	Sequence 147, App
584	254.5	45.1	240	2	US-08-646-360-147	Sequence 147, App
585	254.5	45.1	240	3	US-08-839-765-147	Sequence 147, App
586	254.5	45.1	240	3	US-09-136-389-147	Sequence 147, App
587	254.5	45.1	240	3	US-09-610-838-147	Sequence 147, App
588	254.5	45.1	240	4	US-09-711-485-147	Sequence 147, App
589	254	45.0	105	3	US-08-434-000A-12	Sequence 12, Appl
590	254	45.0	105	3	US-09-312-157-12	Sequence 12, Appl
591	254	45.0	105	4	US-09-717-888-12	Sequence 12, Appl
592	254	45.0	106	4	US-09-771-415-17	Sequence 17, Appl
593	254	45.0	107	3	US-08-783-853A-57	Sequence 57, Appl
594	254	45.0	107	3	US-08-783-853A-62	Sequence 62, Appl
595	254	45.0	107	3	US-09-344-050-57	Sequence 57, Appl
596	254	45.0	107	3	US-09-344-050-62	Sequence 62, Appl
597	254	45.0	108	3	US-08-881-037-74	Sequence 74, Appl
598	254	45.0	114	1	US-08-202-047-25	Sequence 25, Appl
599	254	45.0	114	3	US-08-964-690-25	Sequence 25, Appl
600	254	45.0	125	3	US-08-783-853A-78	Sequence 78, Appl
601	254	45.0	125	3	US-09-344-050-78	Sequence 78, Appl
602	254	45.0	599	1	US-08-463-163-3	Sequence 3, Appli
603	253.5	44.9	107	2	US-07-934-373C-18	Sequence 18, Appl
604	253.5	44.9	107	3	US-08-437-642B-18	Sequence 18, Appl
605	253.5	44.9	107	3	US-09-240-274-33	Sequence 33, Appl
606	253.5	44.9	107	4	US-08-146-206C-18	Sequence 18, Appl
607	253.5	44.9	107	4	US-09-648-067A-14	Sequence 14, Appl
608	253.5	44.9	107	4	US-09-705-686-18	Sequence 18, Appl
609	253.5	44.9	107	4	US-09-705-392A-18	Sequence 18, Appl
610	253.5	44.9	107	4	US-09-705-398-18	Sequence 18, Appl
611	253.5	44.9	107	5	PCT-US93-07832-18	Sequence 18, Appl
612	253.5	44.9	108	3	US-08-974-899-3	Sequence 3, Appli
613	253.5	44.9	108	3	US-08-983-607-29	Sequence 29, Appl
614	253.5	44.9	108	4	US-09-795-798-3	Sequence 3, Appli
615	253.5	44.9	109	3	US-09-425-638A-41	Sequence 41, Appl
616	253.5	44.9	109	3	US-09-425-638A-44	Sequence 44, Appl
617	253.5	44.9	109	3	US-09-543-004-41	Sequence 41, Appl
618	253.5	44.9	109	3	US-09-543-004-44	Sequence 44, Appl
619	253.5	44.9	111	2	US-08-483-636-73	Sequence 73, Appl
620	253.5	44.9	111	2	US-08-483-632-73	Sequence 73, Appl
621	253.5	44.9	126	3	US-08-646-265A-43	Sequence 43, Appl
622	253.5	44.9	126	3	US-08-646-265A-47	Sequence 47, Appl
623	253	44.9	106	4	US-09-798-689-8	Sequence 8, Appli
624	253	44.9	106	4	US-09-996-288-13	Sequence 13, Appl
625	253	44.9	106	4	US-09-996-288-56	Sequence 56, Appl
626	253	44.9	106	4	US-09-996-288-62	Sequence 62, Appl
627	253	44.9	107	2	US-08-303-569B-25	Sequence 25, Appl
628	253	44.9	107	4	US-09-795-515-25	Sequence 25, Appl
629	253	44.9	108	3	US-09-240-274-32	Sequence 32, Appl
630	253	44.9	108	3	US-09-240-274-43	Sequence 43, Appl
631	253	44.9	128	3	US-08-619-491-6	Sequence 6, Appli
632	253	44.9	128	5	PCT-US95-07302-6	Sequence 6, Appli
633	253	44.9	213	4	US-09-996-288-235	Sequence 235, App
634	253	44.9	213	4	US-09-996-288-255	Sequence 255, App
635	253	44.9	235	3	US-09-171-945-17	Sequence 17, Appl
636	253	44.9	238	4	US-09-798-689-21	Sequence 21, Appl
637	253	44.9	241	2	US-07-916-098A-56	Sequence 56, Appl
638	253	44.9	244	1	US-08-230-843-2	Sequence 2, Appli
639	253	44.9	244	2	US-08-636-936-2	Sequence 2, Appli
640	253	44.9	281	3	US-09-423-439-44	Sequence 44, Appl
641	253	44.9	666	3	US-09-423-439-51	Sequence 51, Appl
642	252.5	44.8	106	4	US-08-635-109-8	Sequence 8, Appli
643	252.5	44.8	106	4	US-08-844-215-11	Sequence 11, Appl
644	252.5	44.8	107	1	US-08-425-336-125	Sequence 125, App
645	252.5	44.8	107	1	US-08-488-113B-125	Sequence 125, App
646	252.5	44.8	107	1	US-08-477-484B-125	Sequence 125, App
647	252.5	44.8	107	1	US-08-107-669D-65	Sequence 65, Appl
648	252.5	44.8	107	1	US-08-472-788A-87	Sequence 87, Appl
649	252.5	44.8	107	2	US-08-477-531B-65	Sequence 65, Appl
650	252.5	44.8	107	2	US-08-646-360-125	Sequence 125, App
651	252.5	44.8	107	2	US-08-082-842A-87	Sequence 87, Appl
652	252.5	44.8	107	3	US-08-839-765-125	Sequence 125, App
653	252.5	44.8	107	3	US-09-136-389-125	Sequence 125, App
654	252.5	44.8	107	3	US-09-240-274-175	Sequence 175, App
655	252.5	44.8	107	3	US-09-240-274-176	Sequence 176, App
656	252.5	44.8	107	3	US-09-610-838-125	Sequence 125, App
657	252.5	44.8	107	4	US-09-711-485-125	Sequence 125, App
658	252.5	44.8	108	2	US-08-657-012-25	Sequence 25, Appl
659	252.5	44.8	108	2	US-08-378-939-20	Sequence 20, Appl
660	252.5	44.8	108	2	US-08-378-939-26	Sequence 26, Appl
661	252.5	44.8	108	3	US-09-013-872-25	Sequence 25, Appl
662	252.5	44.8	108	3	US-09-184-198-25	Sequence 25, Appl
663	252.5	44.8	108	3	US-09-633-653-25	Sequence 25, Appl
664	252.5	44.8	108	4	US-09-914-695-2	Sequence 2, Appli
665	252.5	44.8	108	4	US-09-232-290-9	Sequence 9, Appli
666	252.5	44.8	109	2	US-07-934-373C-1	Sequence 1, Appli
667	252.5	44.8	109	2	US-07-934-373C-3	Sequence 3, Appli
668	252.5	44.8	109	3	US-08-437-642B-1	Sequence 1, Appli
669	252.5	44.8	109	3	US-08-437-642B-3	Sequence 3, Appli
670	252.5	44.8	109	4	US-08-146-206C-1	Sequence 1, Appli
671	252.5	44.8	109	4	US-08-146-206C-3	Sequence 3, Appli
672	252.5	44.8	109	4	US-09-705-686-1	Sequence 1, Appli
673	252.5	44.8	109	4	US-09-705-686-3	Sequence 3, Appli
674	252.5	44.8	109	4	US-09-705-392A-1	Sequence 1, Appli
675	252.5	44.8	109	4	US-09-705-392A-3	Sequence 3, Appli
676	252.5	44.8	109	4	US-09-705-392A-29	Sequence 29, Appl
677	252.5	44.8	109	4	US-09-705-392A-33	Sequence 33, Appl
678	252.5	44.8	109	4	US-09-705-398-1	Sequence 1, Appli
679	252.5	44.8	109	4	US-09-705-398-3	Sequence 3, Appli
680	252.5	44.8	109	5	PCT-US93-07832-1	Sequence 1, Appli
681	252.5	44.8	109	5	PCT-US93-07832-3	Sequence 3, Appli
682	252.5	44.8	110	4	US-09-343-698-8	Sequence 8, Appli
683	252.5	44.8	110	4	US-08-325-955-8	Sequence 8, Appli
684	252.5	44.8	113	3	US-09-025-203-9	Sequence 9, Appli

685	252.5	44.8	113	3	US-09-025-203-14	Sequence 14, Appl
686	252.5	44.8	113	4	US-09-999-021-9	Sequence 9, Appli
687	252.5	44.8	113	4	US-09-999-021-14	Sequence 14, Appl
688	252.5	44.8	113	4	US-09-999-025-9	Sequence 9, Appli
689	252.5	44.8	113	4	US-09-999-025-14	Sequence 14, Appl
690	252.5	44.8	113	4	US-10-040-997-9	Sequence 9, Appli
691	252.5	44.8	113	4	US-10-040-997-14	Sequence 14, Appl
692	252.5	44.8	113	4	US-09-999-040-9	Sequence 9, Appli
693	252.5	44.8	113	4	US-09-999-040-14	Sequence 14, Appl
694	252.5	44.8	113	4	US-09-998-817-9	Sequence 9, Appli
695	252.5	44.8	113	4	US-09-998-817-14	Sequence 14, Appl
696	252.5	44.8	113	5	PCT-US93-08435-4	Sequence 4, Appli
697	252.5	44.8	113	5	PCT-US93-08435-8	Sequence 8, Appli
698	252.5	44.8	129	2	US-08-449-287-2	Sequence 2, Appli
699	252.5	44.8	213	3	US-08-630-820-6	Sequence 6, Appli
700	252.5	44.8	213	4	US-09-273-453-6	Sequence 6, Appli
701	252.5	44.8	235	3	US-09-423-439-18	Sequence 18, Appl
702	252.5	44.8	235	3	US-09-423-439-58	Sequence 58, Appl
703	252.5	44.8	235	4	US-09-011-769A-23	Sequence 23, Appl
704	252.5	44.8	244	3	US-08-918-148-77	Sequence 77, Appl
705	252.5	44.8	244	4	US-09-138-091A-75	Sequence 75, Appl
706	252	44.7	106	2	US-08-318-157B-19	Sequence 19, Appl
707	252	44.7	106	4	US-09-253-794-19	Sequence 19, Appl
708	252	44.7	106	4	US-09-996-288-68	Sequence 68, Appl
709	252	44.7	107	3	US-09-171-945-61	Sequence 61, Appl
710	252	44.7	107	3	US-09-171-945-65	Sequence 65, Appl
711	252	44.7	108	1	US-08-276-852-102	Sequence 102, App
712	252	44.7	108	1	US-08-162-102C-25	Sequence 25, Appl
713	252	44.7	108	1	US-08-899-575-102	Sequence 102, App
714	252	44.7	108	1	US-08-899-575-102	Sequence 102, App
715	252	44.7	108	4	US-08-920-100B-25	Sequence 25, Appl
716	252	44.7	108	4	US-09-726-219A-243	Sequence 243, App
717	252	44.7	108	4	US-09-726-219A-244	Sequence 244, App
718	252	44.7	108	5	PCT-US95-08743-102	Sequence 102, App
719	252	44.7	110	4	US-09-726-219A-249	Sequence 249, App
720	252	44.7	110	4	US-09-726-219A-256	Sequence 256, App
721	252	44.7	114	2	US-08-428-257A-76	Sequence 76, Appl
722	252	44.7	114	3	US-07-987-264-16	Sequence 16, Appl
723	252	44.7	114	4	US-09-217-268B-35	Sequence 35, Appl
724	252	44.7	235	3	US-09-171-945-97	Sequence 97, Appl
725	252	44.7	244	2	US-08-553-497A-22	Sequence 22, Appl
726	252	44.7	270	2	US-08-652-507-2	Sequence 2, Appli
727	251.5	44.6	107	3	US-08-554-840-1	Sequence 1, Appli
728	251.5	44.6	107	4	US-08-925-339-1	Sequence 1, Appli
729	251.5	44.6	107	4	US-09-332-595-1	Sequence 1, Appli
730	251.5	44.6	108	2	US-08-379-057-28	Sequence 28, Appl
731	251.5	44.6	111	1	US-08-491-845-16	Sequence 16, Appl
732	251.5	44.6	115	3	US-08-513-968-51	Sequence 51, Appl
733	251.5	44.6	127	3	US-08-836-561-88	Sequence 88, Appl
734	251.5	44.6	127	4	US-09-434-122-88	Sequence 88, Appl
735	251.5	44.6	226	4	US-09-456-090A-74	Sequence 74, Appl
736	251.5	44.6	226	4	US-09-453-234-74	Sequence 74, Appl
737	251.5	44.6	245	3	US-08-918-148-75	Sequence 75, Appl
738	251.5	44.6	245	3	US-08-918-148-78	Sequence 78, Appl
739	251.5	44.6	245	4	US-09-138-091A-73	Sequence 73, Appl
740	251.5	44.6	245	4	US-09-138-091A-76	Sequence 76, Appl
741	251.5	44.6	284	4	US-08-961-309-70	Sequence 70, Appl
742	251	44.5	106	4	US-09-996-288-60	Sequence 60, Appl
743	251	44.5	107	2	US-08-303-569B-26	Sequence 26, Appl
744	251	44.5	107	2	US-08-303-569B-27	Sequence 27, Appl
745	251	44.5	107	2	US-08-303-569B-28	Sequence 28, Appl
746	251	44.5	107	2	US-08-070-116A-9	Sequence 9, Appli
747	251	44.5	107	2	US-08-070-116A-18	Sequence 18, Appl
748	251	44.5	107	2	US-08-116-247-27	Sequence 27, Appl
749	251	44.5	107	2	US-08-116-247-28	Sequence 28, Appl
750	251	44.5	107	2	US-08-116-247-29	Sequence 29, Appl
751	251	44.5	107	4	US-08-557-050-9	Sequence 9, Appli
752	251	44.5	107	4	US-09-795-515-26	Sequence 26, Appl
753	251	44.5	107	4	US-09-795-515-27	Sequence 27, Appl
754	251	44.5	107	4	US-09-795-515-28	Sequence 28, Appl
755	251	44.5	107	4	US-09-348-224-27	Sequence 27, Appl
756	251	44.5	107	4	US-09-348-224-28	Sequence 28, Appl
757	251	44.5	107	4	US-09-348-224-29	Sequence 29, Appl
758	251	44.5	108	1	US-08-478-039-84	Sequence 84, Appl
759	251	44.5	108	1	US-08-476-349A-84	Sequence 84, Appl
760	251	44.5	108	3	US-09-240-274-163	Sequence 163, App
761	251	44.5	108	3	US-09-240-274-167	Sequence 167, App
762	251	44.5	108	3	US-09-171-945-9	Sequence 9, Appli
763	251	44.5	108	4	US-09-726-219A-251	Sequence 251, App
764	251	44.5	110	4	US-09-726-219A-238	Sequence 238, App
765	251	44.5	110	4	US-09-726-219A-246	Sequence 246, App
766	251	44.5	110	4	US-09-726-219A-248	Sequence 248, App
767	251	44.5	110	4	US-09-726-219A-255	Sequence 255, App
768	251	44.5	116	1	US-08-478-039-83	Sequence 83, Appl
769	251	44.5	116	1	US-08-476-349A-83	Sequence 83, Appl
770	251	44.5	128	3	US-08-444-644-15	Sequence 15, Appl
771	251	44.5	128	3	US-08-232-246A-15	Sequence 15, Appl
772	250.5	44.4	103	3	US-09-460-384-35	Sequence 35, Appl
773	250.5	44.4	107	2	US-07-934-373C-41	Sequence 41, Appl
774	250.5	44.4	107	3	US-08-554-840-4	Sequence 4, Appli
775	250.5	44.4	107	3	US-08-437-642B-41	Sequence 41, Appl
776	250.5	44.4	107	3	US-09-240-274-40	Sequence 40, Appl
777	250.5	44.4	107	3	US-09-240-274-44	Sequence 44, Appl
778	250.5	44.4	107	3	US-09-240-274-173	Sequence 173, App
779	250.5	44.4	107	4	US-08-925-339-4	Sequence 4, Appli
780	250.5	44.4	107	4	US-09-332-595-4	Sequence 4, Appli
781	250.5	44.4	109	4	US-09-705-392A-31	Sequence 31, Appl
782	250.5	44.4	109	4	US-09-705-392A-35	Sequence 35, Appl
783	250.5	44.4	113	1	US-08-442-542-12	Sequence 12, Appl
784	250.5	44.4	113	3	US-08-765-469-12	Sequence 12, Appl
785	250.5	44.4	128	1	US-08-476-275-4	Sequence 4, Appli
786	250.5	44.4	128	3	US-08-475-815B-7	Sequence 7, Appli
787	250.5	44.4	128	4	US-08-475-813-4	Sequence 4, Appli
788	250.5	44.4	132	4	US-09-627-896B-4	Sequence 4, Appli
789	250.5	44.4	171	3	US-08-463-903-20	Sequence 20, Appl
790	250.5	44.4	171	3	US-07-935-695-20	Sequence 20, Appl
791	250.5	44.4	214	3	US-09-679-397-1	Sequence 1, Appli
792	250.5	44.4	214	4	US-09-680-148-1	Sequence 1, Appli
793	250.5	44.4	214	4	US-09-304-465A-1	Sequence 1, Appli
794	250.5	44.4	226	4	US-09-456-090A-50	Sequence 50, Appl
795	250.5	44.4	226	4	US-09-456-090A-80	Sequence 80, Appl
796	250.5	44.4	226	4	US-09-456-090A-86	Sequence 86, Appl
797	250.5	44.4	226	4	US-09-453-234-50	Sequence 50, Appl
798	250.5	44.4	226	4	US-09-453-234-80	Sequence 80, Appl
799	250.5	44.4	226	4	US-09-453-234-86	Sequence 86, Appl
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802	250.5	44.4	237	2	US-08-463-587A-25	Sequence 25, Appl
803	250.5	44.4	237	2	US-08-463-667A-3	Sequence 3, Appli
804	250.5	44.4	237	3	US-08-923-854-25	Sequence 25, Appl
805	250.5	44.4	237	5	PCT-US91-09133-26	Sequence 26, Appl
806	250.5	44.4	240	1	US-08-488-113B-148	Sequence 148, App
807	250.5	44.4	240	1	US-08-477-484B-148	Sequence 148, App
808	250.5	44.4	240	2	US-08-646-360-148	Sequence 148, App
809	250.5	44.4	240	3	US-08-839-765-148	Sequence 148, App
810	250.5	44.4	240	3	US-09-136-389-148	Sequence 148, App
811	250.5	44.4	240	3	US-09-610-838-148	Sequence 148, App
812	250.5	44.4	240	4	US-09-711-485-148	Sequence 148, App
813	250	44.3	106	1	US-07-634-278-1	Sequence 1, Appli
814	250	44.3	106	1	US-07-634-278-16	Sequence 16, Appl
815	250	44.3	106	1	US-08-477-728-1	Sequence 1, Appli
816	250	44.3	106	1	US-08-477-728-16	Sequence 16, Appl
817	250	44.3	106	1	US-08-474-040-1	Sequence 1, Appli
818	250	44.3	106	1	US-08-474-040-16	Sequence 16, Appl
819	250	44.3	106	1	US-08-487-200-1	Sequence 1, Appli
820	250	44.3	106	1	US-08-487-200-16	Sequence 16, Appl
821	250	44.3	106	1	US-08-488-113B-163	Sequence 163, App
822	250	44.3	106	1	US-08-477-484B-163	Sequence 163, App
823	250	44.3	106	1	US-08-107-669D-49	Sequence 49, Appl
824	250	44.3	106	1	US-08-472-788A-83	Sequence 83, Appl
825	250	44.3	106	2	US-08-477-531B-49	Sequence 49, Appl
826	250	44.3	106	2	US-08-646-360-163	Sequence 163, App
827	250	44.3	106	2	US-08-082-842A-83	Sequence 83, Appl
828	250	44.3	106	3	US-08-839-765-163	Sequence 163, App
829	250	44.3	106	3	US-09-136-389-163	Sequence 163, App
830	250	44.3	106	3	US-08-484-537-1	Sequence 1, Appli

831	250	44.3	106	3	US-08-484-537-16	Sequence 16, Appl
832	250	44.3	106	3	US-09-240-274-165	Sequence 165, App
833	250	44.3	106	3	US-09-610-838-163	Sequence 163, App
834	250	44.3	106	4	US-09-711-485-163	Sequence 163, App
835	250	44.3	106	4	US-09-771-415-19	Sequence 19, Appl
836	250	44.3	106	4	US-09-996-288-64	Sequence 64, Appl
837	250	44.3	106	4	US-09-996-288-65	Sequence 65, Appl
838	250	44.3	107	3	US-09-171-945-50	Sequence 50, Appl
839	250	44.3	108	2	US-08-657-012-20	Sequence 20, Appl
840	250	44.3	108	2	US-08-657-012-21	Sequence 21, Appl
841	250	44.3	108	3	US-09-013-872-20	Sequence 20, Appl
842	250	44.3	108	3	US-09-013-872-21	Sequence 21, Appl
843	250	44.3	108	3	US-09-184-198-20	Sequence 20, Appl
844	250	44.3	108	3	US-09-184-198-21	Sequence 21, Appl
845	250	44.3	108	3	US-09-633-653-20	Sequence 20, Appl
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849	250	44.3	110	2	US-08-487-113D-96	Sequence 96, Appl
850	250	44.3	110	2	US-08-473-503-96	Sequence 96, Appl
851	250	44.3	110	2	US-08-483-932-96	Sequence 96, Appl
852	250	44.3	110	2	US-08-720-420A-96	Sequence 96, Appl
853	250	44.3	110	3	US-08-714-017-96	Sequence 96, Appl
854	250	44.3	110	3	US-08-475-680-96	Sequence 96, Appl
855	250	44.3	110	4	US-09-726-219A-237	Sequence 237, App
856	250	44.3	112	1	US-08-388-672A-21	Sequence 21, Appl
857	250	44.3	117	3	US-09-080-554-21	Sequence 21, Appl
858	250	44.3	213	4	US-09-996-288-211	Sequence 211, App
859	250	44.3	213	4	US-09-996-288-233	Sequence 233, App
860	250	44.3	213	4	US-09-996-288-239	Sequence 239, App
861	250	44.3	213	4	US-09-996-288-243	Sequence 243, App
862	250	44.3	233	4	US-09-472-087-15	Sequence 15, Appl
863	250	44.3	233	4	US-09-472-087-67	Sequence 67, Appl
864	250	44.3	235	3	US-09-171-945-52	Sequence 52, Appl
865	250	44.3	237	2	US-08-468-252-5	Sequence 5, Appli
866	250	44.3	237	3	US-08-668-706B-5	Sequence 5, Appli
867	250	44.3	237	5	PCT-US95-10740-5	Sequence 5, Appli
868	250	44.3	239	3	US-08-279-772A-8	Sequence 8, Appli
869	250	44.3	239	3	US-08-902-486-11	Sequence 11, Appl
870	250	44.3	1060	4	US-09-419-788-19	Sequence 19, Appl
871	249.5	44.2	107	2	US-08-561-521-6	Sequence 6, Appli
872	249.5	44.2	107	2	US-08-652-558-34	Sequence 34, Appl
873	249.5	44.2	107	2	US-08-318-157B-6	Sequence 6, Appli
874	249.5	44.2	107	3	US-09-025-203-15	Sequence 15, Appl
875	249.5	44.2	107	4	US-09-253-794-6	Sequence 6, Appli
876	249.5	44.2	107	4	US-09-999-021-15	Sequence 15, Appl
877	249.5	44.2	107	4	US-09-999-025-15	Sequence 15, Appl
878	249.5	44.2	107	4	US-10-040-997-15	Sequence 15, Appl
879	249.5	44.2	107	4	US-09-999-040-15	Sequence 15, Appl
880	249.5	44.2	107	4	US-09-998-817-15	Sequence 15, Appl
881	249.5	44.2	107	5	PCT-US95-01219-6	Sequence 6, Appli
882	249.5	44.2	108	2	US-08-070-116A-7	Sequence 7, Appli
883	249.5	44.2	108	2	US-08-116-247-9	Sequence 9, Appli
884	249.5	44.2	108	4	US-08-557-050-7	Sequence 7, Appli
885	249.5	44.2	108	4	US-08-454-899G-100	Sequence 100, App
886	249.5	44.2	108	4	US-09-348-224-9	Sequence 9, Appli
887	249.5	44.2	109	1	US-08-276-852-147	Sequence 147, App
888	249.5	44.2	109	1	US-08-899-575-147	Sequence 147, App
889	249.5	44.2	109	1	US-08-899-575-147	Sequence 147, App
890	249.5	44.2	109	3	US-09-157-370-3	Sequence 3, Appli
891	249.5	44.2	109	3	US-09-425-638A-39	Sequence 39, Appl
892	249.5	44.2	109	3	US-09-425-638A-40	Sequence 40, Appl
893	249.5	44.2	109	3	US-09-425-638A-42	Sequence 42, Appl
894	249.5	44.2	109	3	US-09-543-004-39	Sequence 39, Appl
895	249.5	44.2	109	3	US-09-543-004-40	Sequence 40, Appl
896	249.5	44.2	109	3	US-09-543-004-42	Sequence 42, Appl
897	249.5	44.2	109	5	PCT-US95-08743-147	Sequence 147, App
898	249.5	44.2	126	3	US-08-646-265A-51	Sequence 51, Appl
899	249.5	44.2	126	3	US-08-646-265A-53	Sequence 53, Appl
900	249.5	44.2	127	3	US-08-836-561-92	Sequence 92, Appl
901	249.5	44.2	127	3	US-09-136-315-8	Sequence 8, Appli
902	249.5	44.2	127	4	US-09-434-122-92	Sequence 92, Appl
903	249.5	44.2	127	4	US-09-767-888-8	Sequence 8, Appli
904	249.5	44.2	133	3	US-08-463-903-4	Sequence 4, Appli
905	249.5	44.2	133	3	US-07-935-695-4	Sequence 4, Appli
906	249.5	44.2	134	4	US-08-961-309-58	Sequence 58, Appl
907	249.5	44.2	274	4	US-08-961-309-66	Sequence 66, Appl
908	249.5	44.2	275	3	US-08-463-903-6	Sequence 6, Appli
909	249.5	44.2	275	3	US-07-935-695-6	Sequence 6, Appli
910	249	44.1	100	2	US-08-308-494A-19	Sequence 19, Appl
911	249	44.1	106	4	US-09-771-415-25	Sequence 25, Appl
912	249	44.1	107	2	US-08-303-569B-29	Sequence 29, Appl
913	249	44.1	107	2	US-08-070-116A-6	Sequence 6, Appli
914	249	44.1	107	2	US-08-116-247-8	Sequence 8, Appli
915	249	44.1	107	3	US-08-783-853A-74	Sequence 74, Appl
916	249	44.1	107	3	US-09-344-050-74	Sequence 74, Appl
917	249	44.1	107	4	US-08-557-050-6	Sequence 6, Appli
918	249	44.1	107	4	US-09-795-515-29	Sequence 29, Appl
919	249	44.1	107	4	US-09-348-224-8	Sequence 8, Appli
920	249	44.1	108	1	US-07-634-278-86	Sequence 86, Appl
921	249	44.1	108	1	US-08-477-728-86	Sequence 86, Appl
922	249	44.1	108	1	US-08-474-040-86	Sequence 86, Appl
923	249	44.1	108	1	US-08-487-200-86	Sequence 86, Appl
924	249	44.1	108	3	US-08-484-537-86	Sequence 86, Appl
925	249	44.1	108	4	US-09-948-004-28	Sequence 28, Appl
926	249	44.1	110	4	US-09-726-219A-245	Sequence 245, App
927	249	44.1	235	2	US-08-303-569B-5	Sequence 5, Appli
928	249	44.1	235	2	US-08-116-247-5	Sequence 5, Appli
929	249	44.1	235	4	US-09-795-515-5	Sequence 5, Appli
930	249	44.1	235	4	US-09-348-224-5	Sequence 5, Appli
931	249	44.1	495	4	US-09-948-004-18	Sequence 18, Appl
932	248.5	44.1	107	2	US-08-480-434-74	Sequence 74, Appl
933	248.5	44.1	107	2	US-07-934-373C-43	Sequence 43, Appl
934	248.5	44.1	107	2	US-08-053-451B-74	Sequence 74, Appl
935	248.5	44.1	107	2	US-08-053-451B-176	Sequence 176, App
936	248.5	44.1	107	3	US-08-437-642B-43	Sequence 43, Appl
937	248.5	44.1	108	2	US-08-652-816A-5	Sequence 5, Appli
938	248.5	44.1	108	3	US-09-157-370-4	Sequence 4, Appli
939	248.5	44.1	109	4	US-09-705-392A-27	Sequence 27, Appl
940	248.5	44.1	114	3	US-09-027-449-46	Sequence 46, Appl
941	248.5	44.1	114	3	US-08-804-444A-46	Sequence 46, Appl
942	248.5	44.1	114	3	US-09-026-985-46	Sequence 46, Appl
943	248.5	44.1	114	4	US-09-121-952A-46	Sequence 46, Appl
944	248.5	44.1	114	4	US-09-234-340A-46	Sequence 46, Appl
945	248.5	44.1	126	3	US-08-646-265A-57	Sequence 57, Appl
946	248.5	44.1	126	3	US-08-646-265A-63	Sequence 63, Appl
947	248.5	44.1	224	4	US-09-456-090A-52	Sequence 52, Appl
948	248.5	44.1	224	4	US-09-453-234-52	Sequence 52, Appl
949	248.5	44.1	226	4	US-09-456-090A-38	Sequence 38, Appl
950	248.5	44.1	226	4	US-09-453-234-38	Sequence 38, Appl
951	248.5	44.1	285	3	US-08-463-903-22	Sequence 22, Appl
952	248.5	44.1	285	3	US-07-935-695-22	Sequence 22, Appl
953	248	44.0	106	4	US-09-771-415-21	Sequence 21, Appl
954	248	44.0	106	4	US-09-771-415-23	Sequence 23, Appl
955	248	44.0	106	4	US-09-996-288-26	Sequence 26, Appl
956	248	44.0	106	4	US-09-996-288-76	Sequence 76, Appl
957	248	44.0	108	3	US-09-240-274-41	Sequence 41, Appl
958	248	44.0	109	1	US-08-162-102C-23	Sequence 23, Appl
959	248	44.0	109	4	US-08-920-100B-23	Sequence 23, Appl
960	248	44.0	109	5	PCT-US93-08786-23	Sequence 23, Appl
961	248	44.0	110	3	US-09-025-769B-30	Sequence 30, Appl
962	248	44.0	110	3	US-09-025-769B-47	Sequence 47, Appl
963	248	44.0	110	4	US-09-490-070A-30	Sequence 30, Appl
964	248	44.0	110	4	US-09-490-070A-47	Sequence 47, Appl
965	248	44.0	110	4	US-09-490-153-30	Sequence 30, Appl
966	248	44.0	110	4	US-09-490-153-47	Sequence 47, Appl
967	248	44.0	110	4	US-09-490-324-30	Sequence 30, Appl
968	248	44.0	110	4	US-09-490-324-47	Sequence 47, Appl
969	248	44.0	128	3	US-08-619-491-2	Sequence 2, Appli
970	248	44.0	128	5	PCT-US95-07302-2	Sequence 2, Appli
971	248	44.0	213	4	US-09-996-288-215	Sequence 215, App
972	248	44.0	213	4	US-09-996-288-241	Sequence 241, App
973	247.5	43.9	107	2	US-07-934-373C-17	Sequence 17, Appl
974	247.5	43.9	107	3	US-08-554-840-2	Sequence 2, Appli
975	247.5	43.9	107	3	US-08-554-840-3	Sequence 3, Appli
976	247.5	43.9	107	3	US-08-437-642B-17	Sequence 17, Appl

977	247.5	43.9	107	3	US-09-240-274-168	Sequence 168, App
978	247.5	43.9	107	4	US-08-146-206C-17	Sequence 17, Appl
979	247.5	43.9	107	4	US-08-925-339-2	Sequence 2, Appli
980	247.5	43.9	107	4	US-08-925-339-3	Sequence 3, Appli
981	247.5	43.9	107	4	US-09-332-595-2	Sequence 2, Appli
982	247.5	43.9	107	4	US-09-332-595-3	Sequence 3, Appli
983	247.5	43.9	107	4	US-09-705-686-17	Sequence 17, Appl
984	247.5	43.9	107	4	US-09-705-392A-17	Sequence 17, Appl
985	247.5	43.9	107	4	US-09-705-398-17	Sequence 17, Appl
986	247.5	43.9	107	5	PCT-US93-07832-17	Sequence 17, Appl
987	247.5	43.9	108	2	US-08-378-939-24	Sequence 24, Appl
988	247.5	43.9	108	2	US-08-602-725-29	Sequence 29, Appl
989	247.5	43.9	108	3	US-09-240-274-53	Sequence 53, Appl
990	247.5	43.9	108	3	US-09-240-274-166	Sequence 166, App
991	247.5	43.9	113	5	PCT-US93-11612-5	Sequence 5, Appli
992	247.5	43.9	114	2	US-08-887-352B-8	Sequence 8, Appli
993	247.5	43.9	114	3	US-09-109-207C-8	Sequence 8, Appli
994	247.5	43.9	114	3	US-09-296-005-8	Sequence 8, Appli
995	247.5	43.9	114	4	US-09-920-171-8	Sequence 8, Appli
996	247.5	43.9	114	4	US-09-716-028-8	Sequence 8, Appli
997	247.5	43.9	114	4	US-10-113-996-8	Sequence 8, Appli
998	247.5	43.9	131	2	US-08-483-636-14	Sequence 14, Appl
999	247.5	43.9	131	2	US-08-483-636-58	Sequence 58, Appl
1000	247.5	43.9	131	2	US-08-483-632-14	Sequence 14, Appl
1001	247.5	43.9	131	2	US-08-483-632-58	Sequence 58, Appl
1002	247.5	43.9	133	3	US-08-579-378A-2	Sequence 2, Appli
1003	247.5	43.9	133	5	PCT-US93-11612-2	Sequence 2, Appli
1004	247.5	43.9	214	2	US-07-934-373C-39	Sequence 39, Appl
1005	247.5	43.9	214	3	US-08-437-642B-39	Sequence 39, Appl
1006	247.5	43.9	214	4	US-09-472-087-71	Sequence 71, Appl
1007	247.5	43.9	214	5	PCT-US93-07832-39	Sequence 39, Appl
1008	247.5	43.9	218	2	US-08-887-352B-15	Sequence 15, Appl
1009	247.5	43.9	218	2	US-08-887-352B-17	Sequence 17, Appl
1010	247.5	43.9	218	2	US-08-887-352B-19	Sequence 19, Appl
1011	247.5	43.9	218	2	US-08-887-352B-24	Sequence 24, Appl
1012	247.5	43.9	218	3	US-09-109-207C-15	Sequence 15, Appl
1013	247.5	43.9	218	3	US-09-109-207C-17	Sequence 17, Appl
1014	247.5	43.9	218	3	US-09-109-207C-19	Sequence 19, Appl
1015	247.5	43.9	218	3	US-09-109-207C-24	Sequence 24, Appl
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1017	247.5	43.9	218	3	US-09-054-255-1	Sequence 1, Appli
1018	247.5	43.9	218	3	US-09-296-005-15	Sequence 15, Appl
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1021	247.5	43.9	218	3	US-09-296-005-24	Sequence 24, Appl
1022	247.5	43.9	218	4	US-09-282-846-1	Sequence 1, Appli
1023	247.5	43.9	218	4	US-09-680-145-1	Sequence 1, Appli
1024	247.5	43.9	218	4	US-09-920-171-15	Sequence 15, Appl
1025	247.5	43.9	218	4	US-09-920-171-17	Sequence 17, Appl
1026	247.5	43.9	218	4	US-09-920-171-19	Sequence 19, Appl
1027	247.5	43.9	218	4	US-09-920-171-24	Sequence 24, Appl
1028	247.5	43.9	218	4	US-09-716-028-15	Sequence 15, Appl
1029	247.5	43.9	218	4	US-09-716-028-17	Sequence 17, Appl
1030	247.5	43.9	218	4	US-09-716-028-19	Sequence 19, Appl
1031	247.5	43.9	218	4	US-09-716-028-24	Sequence 24, Appl
1032	247.5	43.9	218	4	US-09-483-588-1	Sequence 1, Appli
1033	247.5	43.9	218	4	US-10-113-996-15	Sequence 15, Appl
1034	247.5	43.9	218	4	US-10-113-996-17	Sequence 17, Appl
1035	247.5	43.9	218	4	US-10-113-996-19	Sequence 19, Appl
1036	247.5	43.9	218	4	US-10-113-996-24	Sequence 24, Appl
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1038	247.5	43.9	224	4	US-09-456-090A-88	Sequence 88, Appl
1039	247.5	43.9	224	4	US-09-456-090A-90	Sequence 90, Appl
1040	247.5	43.9	224	4	US-09-453-234-82	Sequence 82, Appl
1041	247.5	43.9	224	4	US-09-453-234-88	Sequence 88, Appl
1042	247.5	43.9	224	4	US-09-453-234-90	Sequence 90, Appl
1043	247.5	43.9	248	2	US-08-887-352B-22	Sequence 22, Appl
1044	247.5	43.9	248	2	US-08-887-352B-23	Sequence 23, Appl
1045	247.5	43.9	248	3	US-09-109-207C-22	Sequence 22, Appl
1046	247.5	43.9	248	3	US-09-109-207C-23	Sequence 23, Appl
1047	247.5	43.9	248	3	US-09-296-005-22	Sequence 22, Appl
1048	247.5	43.9	248	3	US-09-296-005-23	Sequence 23, Appl
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1052	247.5	43.9	248	4	US-09-716-028-23	Sequence 23, Appl
1053	247.5	43.9	248	4	US-10-113-996-22	Sequence 22, Appl
1054	247.5	43.9	248	4	US-10-113-996-23	Sequence 23, Appl
1055	247.5	43.9	260	3	US-08-463-903-2	Sequence 2, Appli
1056	247.5	43.9	260	3	US-07-935-695-2	Sequence 2, Appli
1057	247.5	43.9	260	4	US-08-961-309-64	Sequence 64, Appl
1058	247	43.8	104	1	US-08-276-852-106	Sequence 106, App
1059	247	43.8	104	1	US-08-899-575-106	Sequence 106, App
1060	247	43.8	104	1	US-08-899-575-106	Sequence 106, App
1061	247	43.8	104	5	PCT-US95-08743-106	Sequence 106, App
1062	247	43.8	105	4	US-08-635-109-6	Sequence 6, Appli
1063	247	43.8	105	4	US-08-844-215-9	Sequence 9, Appli
1064	247	43.8	106	4	US-09-996-288-38	Sequence 38, Appl
1065	247	43.8	106	4	US-09-996-288-52	Sequence 52, Appl
1066	247	43.8	106	4	US-09-996-288-59	Sequence 59, Appl
1067	247	43.8	107	1	US-08-459-310-14	Sequence 14, Appl
1068	247	43.8	107	3	US-09-171-945-71	Sequence 71, Appl
1069	247	43.8	110	4	US-09-726-219A-258	Sequence 258, App
1070	247	43.8	111	4	US-09-232-290-11	Sequence 11, Appl
1071	247	43.8	117	4	US-09-203-768A-4	Sequence 4, Appli
1072	247	43.8	213	4	US-09-996-288-221	Sequence 221, App
1073	247	43.8	213	4	US-09-996-288-245	Sequence 245, App
1074	247	43.8	213	4	US-09-996-288-247	Sequence 247, App
1075	247	43.8	222	2	US-08-190-199A-67	Sequence 67, Appl
1076	247	43.8	223	2	US-08-190-199A-63	Sequence 63, Appl
1077	247	43.8	235	2	US-08-190-199A-61	Sequence 61, Appl
1078	247	43.8	235	3	US-09-171-945-99	Sequence 99, Appl
1079	247	43.8	236	2	US-08-190-199A-65	Sequence 65, Appl
1080	247	43.8	255	3	US-09-553-498-8	Sequence 8, Appli
1081	247	43.8	255	4	US-09-618-869-8	Sequence 8, Appli
1082	246.5	43.7	107	3	US-08-646-265A-130	Sequence 130, App
1083	246.5	43.7	108	2	US-08-378-939-16	Sequence 16, Appl
1084	246.5	43.7	109	2	US-07-934-373C-47	Sequence 47, Appl
1085	246.5	43.7	109	3	US-08-437-642B-47	Sequence 47, Appl
1086	246.5	43.7	113	1	US-08-467-420A-46	Sequence 46, Appl
1087	246.5	43.7	113	1	US-08-470-110A-46	Sequence 46, Appl
1088	246.5	43.7	113	1	US-08-667-769A-46	Sequence 46, Appl
1089	246.5	43.7	113	2	US-08-940-371-46	Sequence 46, Appl
1090	246.5	43.7	113	3	US-08-637-647-46	Sequence 46, Appl
1091	246.5	43.7	113	5	PCT-US93-11611-5	Sequence 5, Appli
1092	246.5	43.7	113	5	PCT-US95-17082A-46	Sequence 46, Appl
1093	246.5	43.7	114	4	US-09-232-290-12	Sequence 12, Appl
1094	246.5	43.7	115	3	US-09-025-769B-31	Sequence 31, Appl
1095	246.5	43.7	115	3	US-09-025-769B-49	Sequence 49, Appl
1096	246.5	43.7	115	4	US-09-490-070A-31	Sequence 31, Appl
1097	246.5	43.7	115	4	US-09-490-070A-49	Sequence 49, Appl
1098	246.5	43.7	115	4	US-09-490-153-31	Sequence 31, Appl
1099	246.5	43.7	115	4	US-09-490-153-49	Sequence 49, Appl
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1101	246.5	43.7	115	4	US-09-490-324-49	Sequence 49, Appl
1102	246.5	43.7	126	3	US-08-646-265A-85	Sequence 85, Appl
1103	246.5	43.7	126	3	US-08-646-265A-91	Sequence 91, Appl
1104	246.5	43.7	133	5	PCT-US93-11611-9	Sequence 9, Appli
1105	246.5	43.7	141	4	US-09-472-087-89	Sequence 89, Appl
1106	246.5	43.7	214	2	US-07-934-373C-40	Sequence 40, Appl
1107	246.5	43.7	214	2	US-08-788-800-11	Sequence 11, Appl
1108	246.5	43.7	214	3	US-08-437-642B-40	Sequence 40, Appl
1109	246.5	43.7	214	3	US-09-097-309-2	Sequence 2, Appli
1110	246.5	43.7	214	3	US-09-097-171A-2	Sequence 2, Appli
1111	246.5	43.7	214	3	US-09-460-587-2	Sequence 2, Appli
1112	246.5	43.7	214	4	US-09-940-166A-2	Sequence 2, Appli
1113	246.5	43.7	214	5	PCT-US93-07832-40	Sequence 40, Appl
1114	246.5	43.7	224	4	US-09-456-090A-36	Sequence 36, Appl
1115	246.5	43.7	224	4	US-09-453-234-36	Sequence 36, Appl
1116	246.5	43.7	233	2	US-07-934-373C-25	Sequence 25, Appl
1117	246.5	43.7	233	3	US-08-437-642B-25	Sequence 25, Appl
1118	246.5	43.7	233	4	US-08-146-206C-25	Sequence 25, Appl
1119	246.5	43.7	233	4	US-09-705-686-25	Sequence 25, Appl
1120	246.5	43.7	233	4	US-09-705-392A-25	Sequence 25, Appl
1121	246.5	43.7	233	4	US-09-705-398-25	Sequence 25, Appl
1122	246.5	43.7	233	5	PCT-US93-07832-25	Sequence 25, Appl

1123	246.5	43.7	237	3	US-09-097-309-6	Sequence 6, Appli
1124	246.5	43.7	237	3	US-09-097-171A-10	Sequence 10, Appl
1125	246.5	43.7	237	3	US-09-422-712B-2	Sequence 2, Appli
1126	246.5	43.7	237	3	US-09-607-756-2	Sequence 2, Appli
1127	246.5	43.7	237	3	US-09-460-587-6	Sequence 6, Appli
1128	246.5	43.7	237	4	US-09-940-166A-6	Sequence 6, Appli
1129	246.5	43.7	269	3	US-08-646-265A-109	Sequence 109, App
1130	246.5	43.7	456	4	US-09-495-880A-11	Sequence 11, Appl
1131	246	43.6	106	4	US-09-996-288-8	Sequence 8, Appli
1132	246	43.6	106	4	US-09-996-288-34	Sequence 34, Appl
1133	246	43.6	108	1	US-08-276-852-109	Sequence 109, App
1134	246	43.6	108	1	US-08-899-575-109	Sequence 109, App
1135	246	43.6	108	1	US-08-899-575-109	Sequence 109, App
1136	246	43.6	108	5	PCT-US95-08743-109	Sequence 109, App
1137	246	43.6	110	3	US-09-672-609-14	Sequence 14, Appl
1138	246	43.6	110	4	US-09-025-403A-14	Sequence 14, Appl
1139	246	43.6	128	3	US-08-444-644-25	Sequence 25, Appl
1140	246	43.6	128	3	US-08-232-246A-25	Sequence 25, Appl
1141	246	43.6	139	4	US-09-472-087-22	Sequence 22, Appl
1142	246	43.6	139	4	US-09-472-087-96	Sequence 96, Appl
1143	246	43.6	213	4	US-09-996-288-219	Sequence 219, App
1144	246	43.6	235	3	US-08-812-586-16	Sequence 16, Appl
1145	246	43.6	235	4	US-09-535-832A-17	Sequence 17, Appl
1146	245.5	43.5	100	3	US-08-881-037-36	Sequence 36, Appl
1147	245.5	43.5	106	4	US-08-844-215-14	Sequence 14, Appl
1148	245.5	43.5	107	2	US-08-561-521-8	Sequence 8, Appli
1149	245.5	43.5	107	4	US-09-438-954-40	Sequence 40, Appl
1150	245.5	43.5	107	4	US-09-647-468-93	Sequence 93, Appl
1151	245.5	43.5	107	4	US-09-647-468-99	Sequence 99, Appl
1152	245.5	43.5	107	4	US-09-647-468-101	Sequence 101, App
1153	245.5	43.5	107	5	PCT-US95-01219-8	Sequence 8, Appli
1154	245.5	43.5	108	4	US-09-232-290-6	Sequence 6, Appli
1155	245.5	43.5	110	4	US-09-440-781-95	Sequence 95, Appl
1156	245.5	43.5	113	1	US-08-467-420A-70	Sequence 70, Appl
1157	245.5	43.5	113	1	US-08-470-110A-70	Sequence 70, Appl
1158	245.5	43.5	113	1	US-08-667-769A-70	Sequence 70, Appl
1159	245.5	43.5	113	2	US-08-940-371-70	Sequence 70, Appl
1160	245.5	43.5	113	5	PCT-US95-17082A-70	Sequence 70, Appl
1161	245.5	43.5	127	4	US-09-647-468-179	Sequence 179, App
1162	245.5	43.5	127	4	US-09-647-468-180	Sequence 180, App
1163	245.5	43.5	127	4	US-09-647-468-181	Sequence 181, App
1164	245.5	43.5	131	1	US-08-137-117D-25	Sequence 25, Appl
1165	245.5	43.5	131	2	US-08-436-717-25	Sequence 25, Appl
1166	245.5	43.5	226	4	US-09-456-090A-72	Sequence 72, Appl
1167	245.5	43.5	226	4	US-09-453-234-72	Sequence 72, Appl
1168	245	43.4	105	1	US-08-276-852-89	Sequence 89, Appl
1169	245	43.4	105	1	US-08-899-575-89	Sequence 89, Appl
1170	245	43.4	105	1	US-08-899-575-89	Sequence 89, Appl
1171	245	43.4	105	5	PCT-US95-08743-89	Sequence 89, Appl
1172	245	43.4	106	4	US-09-740-002-22	Sequence 22, Appl
1173	245	43.4	107	1	US-08-211-202-3	Sequence 3, Appli
1174	245	43.4	107	4	US-08-635-109-5	Sequence 5, Appli
1175	245	43.4	107	4	US-08-844-215-8	Sequence 8, Appli
1176	245	43.4	108	4	US-09-726-219A-241	Sequence 241, App
1177	245	43.4	114	3	US-09-025-769B-29	Sequence 29, Appl
1178	245	43.4	114	3	US-09-025-769B-45	Sequence 45, Appl
1179	245	43.4	114	4	US-09-490-070A-29	Sequence 29, Appl
1180	245	43.4	114	4	US-09-490-070A-45	Sequence 45, Appl
1181	245	43.4	114	4	US-09-490-153-29	Sequence 29, Appl
1182	245	43.4	114	4	US-09-490-153-45	Sequence 45, Appl
1183	245	43.4	114	4	US-09-490-324-29	Sequence 29, Appl
1184	245	43.4	114	4	US-09-490-324-45	Sequence 45, Appl
1185	245	43.4	128	2	US-08-656-586-2	Sequence 2, Appli
1186	245	43.4	151	4	US-09-318-786-33	Sequence 33, Appl
1187	245	43.4	153	2	US-08-652-558-41	Sequence 41, Appl
1188	245	43.4	213	4	US-09-996-288-257	Sequence 257, App
1189	245	43.4	234	4	US-09-740-002-26	Sequence 26, Appl
1190	245	43.4	246	1	US-08-469-486-57	Sequence 57, Appl
1191	245	43.4	246	2	US-08-469-658-57	Sequence 57, Appl
1192	245	43.4	281	3	US-09-025-769B-178	Sequence 178, App
1193	245	43.4	281	4	US-09-490-070A-178	Sequence 178, App
1194	245	43.4	281	4	US-09-490-153-178	Sequence 178, App
1195	245	43.4	281	4	US-09-490-324-178	Sequence 178, App
1196	245	43.4	297	4	US-09-486-814A-2	Sequence 2, Appli
1197	244.5	43.4	107	1	US-08-300-386A-66	Sequence 66, Appl
1198	244.5	43.4	107	3	US-08-931-645-66	Sequence 66, Appl
1199	244.5	43.4	107	3	US-09-240-274-34	Sequence 34, Appl
1200	244.5	43.4	107	3	US-09-240-274-162	Sequence 162, App
1201	244.5	43.4	107	3	US-09-240-274-172	Sequence 172, App
1202	244.5	43.4	107	3	US-09-240-274-174	Sequence 174, App
1203	244.5	43.4	107	5	PCT-US95-11235-66	Sequence 66, Appl
1204	244.5	43.4	108	2	US-08-378-939-32	Sequence 32, Appl
1205	244.5	43.4	108	2	US-08-378-939-34	Sequence 34, Appl
1206	244.5	43.4	108	3	US-08-974-899-2	Sequence 2, Appli
1207	244.5	43.4	108	4	US-09-795-798-2	Sequence 2, Appli
1208	244.5	43.4	111	1	US-08-111-080-30	Sequence 30, Appl
1209	244.5	43.4	111	1	US-08-111-080-32	Sequence 32, Appl
1210	244.5	43.4	111	1	US-08-275-053-14	Sequence 14, Appl
1211	244.5	43.4	111	1	US-08-211-980-30	Sequence 30, Appl
1212	244.5	43.4	111	1	US-08-211-980-32	Sequence 32, Appl
1213	244.5	43.4	111	5	PCT-US93-07967-30	Sequence 30, Appl
1214	244.5	43.4	111	5	PCT-US93-07967-32	Sequence 32, Appl
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1216	244.5	43.4	113	1	US-08-470-110A-45	Sequence 45, Appl
1217	244.5	43.4	113	1	US-08-667-769A-45	Sequence 45, Appl
1218	244.5	43.4	113	2	US-08-940-371-45	Sequence 45, Appl
1219	244.5	43.4	113	3	US-08-637-647-45	Sequence 45, Appl
1220	244.5	43.4	113	3	US-08-579-378A-5	Sequence 5, Appli
1221	244.5	43.4	113	5	PCT-US95-17082A-45	Sequence 45, Appl
1222	244.5	43.4	115	3	US-09-561-500-9	Sequence 9, Appli
1223	244.5	43.4	115	3	US-09-561-108-9	Sequence 9, Appli
1224	244.5	43.4	115	4	US-09-561-526-9	Sequence 9, Appli
1225	244.5	43.4	115	4	US-09-561-499-9	Sequence 9, Appli
1226	244.5	43.4	115	4	US-09-998-831-9	Sequence 9, Appli
1227	244.5	43.4	115	4	US-09-561-005-9	Sequence 9, Appli
1228	244.5	43.4	126	3	US-08-646-265A-59	Sequence 59, Appl
1229	244.5	43.4	126	4	US-09-355-925-6	Sequence 6, Appli
1230	244.5	43.4	126	4	US-08-454-899G-17	Sequence 17, Appl
1231	244.5	43.4	126	4	US-09-269-921-106	Sequence 106, App
1232	244.5	43.4	126	4	US-09-269-921-107	Sequence 107, App
1233	244.5	43.4	128	1	US-08-463-128-6	Sequence 6, Appli
1234	244.5	43.4	128	2	US-08-463-298-6	Sequence 6, Appli
1235	244.5	43.4	128	2	US-08-436-339A-6	Sequence 6, Appli
1236	244.5	43.4	128	4	US-08-454-899G-31	Sequence 31, Appl
1237	244.5	43.4	214	1	US-08-253-877C-5	Sequence 5, Appli
1238	244.5	43.4	214	2	US-08-452-164A-5	Sequence 5, Appli
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(without alignments)
286.351 Million cell updates/sec

Title: US-09-880-748-1_COPY_141_249
Perfect score: 564
Sequence: 1 LTQPASVSGSPGQSITISCT.....SYTTRSTRVFGGGTKLTVLG 108

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	564	100.0	111	4	AAG62963	Aag62963 Amino aci
2	564	100.0	240	5	ABP45919	Abp45919 Human BLy
3	564	100.0	240	5	ABP46036	Abp46036 Human BLy
4	564	100.0	240	5	ABP46039	Abp46039 Human BLy
5	564	100.0	240	5	ABP46048	Abp46048 Human BLy
6	564	100.0	240	5	ABP46041	Abp46041 Human BLy
7	564	100.0	240	5	ABP45875	Abp45875 Human BLy
8	564	100.0	240	5	ABP46050	Abp46050 Human BLy
9	564	100.0	240	7	ADG96866	Adg96866 Single ch
10	564	100.0	240	7	ADG96746	Adg96746 Single ch
11	564	100.0	240	7	ADG96863	Adg96863 Single ch
12	564	100.0	240	7	ADG96868	Adg96868 Single ch
13	564	100.0	240	7	ADG96875	Adg96875 Single ch
14	564	100.0	240	7	ADG96877	Adg96877 Single ch
15	564	100.0	240	7	ADG96702	Adg96702 Single ch
16	564	100.0	242	6	ABP60522	Abp60522 APRIL bin
17	564	100.0	243	5	ABP44984	Abp44984 Human BLy
18	564	100.0	243	5	ABP46098	Abp46098 Human BLy
19	564	100.0	243	5	ABP45395	Abp45395 Human BLy
20	564	100.0	243	7	ADG30408	Adg30408 Human GMB
21	564	100.0	243	7	ADG96925	Adg96925 Single ch
22	564	100.0	243	7	ADG96222	Adg96222 Single ch
23	564	100.0	243	7	ADG95811	Adg95811 Single ch
24	564	100.0	244	5	ABP45595	Abp45595 Human BLy
25	564	100.0	244	5	ABP45899	Abp45899 Human BLy
26	564	100.0	244	5	ABP46015	Abp46015 Human BLy
27	564	100.0	244	5	ABP46026	Abp46026 Human BLy
28	564	100.0	244	5	ABP45173	Abp45173 Human BLy
29	564	100.0	244	7	ADG96726	Adg96726 Single ch
30	564	100.0	244	7	ADG96422	Adg96422 Single ch
31	564	100.0	244	7	ADG96853	Adg96853 Single ch
32	564	100.0	244	7	ADG96000	Adg96000 Single ch
33	564	100.0	244	7	ADG96842	Adg96842 Single ch
34	564	100.0	245	5	ABP45440	Abp45440 Human BLy
35	564	100.0	245	5	ABP46105	Abp46105 Human BLy
36	564	100.0	245	5	ABP45809	Abp45809 Human BLy
37	564	100.0	245	5	ABP45732	Abp45732 Human BLy
38	564	100.0	245	5	ABP46031	Abp46031 Human BLy
39	564	100.0	245	5	ABP44835	Abp44835 Human BLy
40	564	100.0	245	5	ABP45993	Abp45993 Human BLy
41	564	100.0	245	7	ADG96820	Adg96820 Single ch
42	564	100.0	245	7	ADG96267	Adg96267 Single ch
43	564	100.0	245	7	ADG96559	Adg96559 Single ch
44	564	100.0	245	7	ADG96636	Adg96636 Single ch
45	564	100.0	245	7	ADG96932	Adg96932 Single ch
46	564	100.0	245	7	ADG95662	Adg95662 Single ch
47	564	100.0	245	7	ADG96858	Adg96858 Single ch
48	564	100.0	246	5	ABP45578	Abp45578 Human BLy
49	564	100.0	246	5	ABP45680	Abp45680 Human BLy
50	564	100.0	246	5	ABP45303	Abp45303 Human BLy
51	564	100.0	246	5	ABP44991	Abp44991 Human BLy
52	564	100.0	246	7	ADG96405	Adg96405 Single ch
53	564	100.0	246	7	ADG95818	Adg95818 Single ch
54	564	100.0	246	7	ADG96130	Adg96130 Single ch
55	564	100.0	246	7	ADG96507	Adg96507 Single ch
56	564	100.0	247	5	ABP44974	Abp44974 Human BLy
57	564	100.0	247	5	ABP45643	Abp45643 Human BLy
58	564	100.0	247	5	ABP45678	Abp45678 Human BLy
59	564	100.0	247	5	ABP45650	Abp45650 Human BLy
60	564	100.0	247	5	ABP45685	Abp45685 Human BLy
61	564	100.0	247	5	ABP45735	Abp45735 Human BLy
62	564	100.0	247	5	ABP45733	Abp45733 Human BLy
63	564	100.0	247	5	ABP45423	Abp45423 Human BLy
64	564	100.0	247	5	ABP45676	Abp45676 Human BLy
65	564	100.0	247	5	ABP45371	Abp45371 Human BLy
66	564	100.0	247	5	ABP45652	Abp45652 Human BLy
67	564	100.0	247	5	ABP45759	Abp45759 Human BLy
68	564	100.0	247	5	ABP45622	Abp45622 Human BLy
69	564	100.0	247	7	ADG30423	Adg30423 Human GMB
70	564	100.0	247	7	ADG30475	Adg30475 Human GMB
71	564	100.0	247	7	ADG30432	Adg30432 Human GMB
72	564	100.0	247	7	ADG30451	Adg30451 Human GMB
73	564	100.0	247	7	ADG30442	Adg30442 Human GMB
74	564	100.0	247	7	ADG30417	Adg30417 Human GMB
75	564	100.0	247	7	ADG30446	Adg30446 Human GMB
76	564	100.0	247	7	ADG30450	Adg30450 Human GMB
77	564	100.0	247	7	ADG30459	Adg30459 Human GMB
78	564	100.0	247	7	ADG30418	Adg30418 Human GMB
79	564	100.0	247	7	ADG30440	Adg30440 Human GMB
80	564	100.0	247	7	ADG30456	Adg30456 Human GMB
81	564	100.0	247	7	ADG30434	Adg30434 Human GMB
82	564	100.0	247	7	ADG30453	Adg30453 Human GMB
83	564	100.0	247	7	ADG30479	Adg30479 Human GMB
84	564	100.0	247	7	ADG30468	Adg30468 Human GMB
85	564	100.0	247	7	ADG30470	Adg30470 Human GMB
86	564	100.0	247	7	ADG30409	Adg30409 Human GMB
87	564	100.0	247	7	ADG30443	Adg30443 Human GMB
88	564	100.0	247	7	ADG30449	Adg30449 Human GMB
89	564	100.0	247	7	ADG30481	Adg30481 Human GMB
90	564	100.0	247	7	ADG96449	Adg96449 Single ch
91	564	100.0	247	7	ADG95801	Adg95801 Single ch
92	564	100.0	247	7	ADG96250	Adg96250 Single ch
93	564	100.0	247	7	ADG96505	Adg96505 Single ch
94	564	100.0	247	7	ADG96479	Adg96479 Single ch
95	564	100.0	247	7	ADG96512	Adg96512 Single ch
96	564	100.0	247	7	ADG96560	Adg96560 Single ch
97	564	100.0	247	7	ADG96198	Adg96198 Single ch
98	564	100.0	247	7	ADG96477	Adg96477 Single ch

99	564	100.0	247	7	ADG96503	Adg96503 Single ch
100	564	100.0	247	7	ADG96562	Adg96562 Single ch
101	564	100.0	247	7	ADG96586	Adg96586 Single ch
102	564	100.0	247	7	ADG96470	Adg96470 Single ch
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104	564	100.0	248	5	ABP45465	Abp45465 Human BLy
105	564	100.0	248	5	ABP45642	Abp45642 Human BLy
106	564	100.0	248	5	ABP45771	Abp45771 Human BLy
107	564	100.0	248	5	ABP45429	Abp45429 Human BLy
108	564	100.0	248	5	ABP45392	Abp45392 Human BLy
109	564	100.0	248	7	ADG96256	Adg96256 Single ch
110	564	100.0	248	7	ADG96292	Adg96292 Single ch
111	564	100.0	248	7	ADG96469	Adg96469 Single ch
112	564	100.0	248	7	ADG96598	Adg96598 Single ch
113	564	100.0	248	7	ADG94817	Adg94817 Single ch
114	564	100.0	248	7	ADG96219	Adg96219 Single ch
115	564	100.0	249	3	AAB36083	Aab36083 Recombina
116	564	100.0	249	5	ABP44930	Abp44930 Human BLy
117	564	100.0	249	5	ABP45709	Abp45709 Human BLy
118	564	100.0	249	7	ADG30407	Adg30407 Human GMB
119	564	100.0	249	7	ADG95757	Adg95757 Single ch
120	564	100.0	249	7	ADG96536	Adg96536 Single ch
121	564	100.0	250	5	ABP45793	Abp45793 Human BLy
122	564	100.0	250	5	ABP45302	Abp45302 Human BLy
123	564	100.0	250	5	ABP45786	Abp45786 Human BLy
124	564	100.0	250	5	ABP45584	Abp45584 Human BLy
125	564	100.0	250	5	ABP45672	Abp45672 Human BLy
126	564	100.0	250	5	ABP44872	Abp44872 Human BLy
127	564	100.0	250	5	ABP44953	Abp44953 Human BLy
128	564	100.0	250	5	ABP45428	Abp45428 Human BLy
129	564	100.0	250	5	ABP45605	Abp45605 Human BLy
130	564	100.0	250	5	ABP45582	Abp45582 Human BLy
131	564	100.0	250	5	ABP44826	Abp44826 Human BLy
132	564	100.0	250	5	ABP45570	Abp45570 Human BLy
133	564	100.0	250	5	ABP45180	Abp45180 Human BLy
134	564	100.0	250	5	ABP44856	Abp44856 Human BLy
135	564	100.0	250	5	ABP45602	Abp45602 Human BLy
136	564	100.0	250	5	ABP45634	Abp45634 Human BLy
137	564	100.0	250	5	ABP44936	Abp44936 Human BLy
138	564	100.0	250	5	ABP45314	Abp45314 Human BLy
139	564	100.0	250	5	ABP45633	Abp45633 Human BLy
140	564	100.0	250	7	ADG95699	Adg95699 Single ch
141	564	100.0	250	7	ADG98063	Adg98063 TNF proli
142	564	100.0	250	7	ADG95780	Adg95780 Single ch
143	564	100.0	250	7	ADG96255	Adg96255 Single ch
144	564	100.0	250	7	ADG96429	Adg96429 Single ch
145	564	100.0	250	7	ADG95683	Adg95683 Single ch
146	564	100.0	250	7	ADG95763	Adg95763 Single ch
147	564	100.0	250	7	ADG96411	Adg96411 Single ch
148	564	100.0	250	7	ADG96432	Adg96432 Single ch
149	564	100.0	250	7	ADG96461	Adg96461 Single ch
150	564	100.0	250	7	ADG96620	Adg96620 Single ch
151	564	100.0	250	7	ADG96129	Adg96129 Single ch
152	564	100.0	250	7	ADG96397	Adg96397 Single ch
153	564	100.0	250	7	ADG96409	Adg96409 Single ch
154	564	100.0	250	7	ADG96141	Adg96141 Single ch
155	564	100.0	250	7	ADG96499	Adg96499 Single ch
156	564	100.0	250	7	ADG96613	Adg96613 Single ch
157	564	100.0	250	7	ADG95653	Adg95653 Single ch
158	564	100.0	250	7	ADG96007	Adg96007 Single ch
159	564	100.0	250	7	ADG96460	Adg96460 Single ch
160	564	100.0	251	5	ABP44949	Abp44949 Human BLy
161	564	100.0	251	5	ABP44979	Abp44979 Human BLy
162	564	100.0	251	5	ABP45069	Abp45069 Human BLy
163	564	100.0	251	5	ABP45096	Abp45096 Human BLy
164	564	100.0	251	5	ABP45752	Abp45752 Human BLy
165	564	100.0	251	5	ABP45867	Abp45867 Human BLy
166	564	100.0	251	5	ABP44933	Abp44933 Human BLy
167	564	100.0	251	5	ABP44950	Abp44950 Human BLy
168	564	100.0	251	5	ABP44967	Abp44967 Human BLy
169	564	100.0	251	5	ABP45379	Abp45379 Human BLy
170	564	100.0	251	5	ABP45763	Abp45763 Human BLy
171	564	100.0	251	5	ABP45859	Abp45859 Human BLy
172	564	100.0	251	5	ABP45057	Abp45057 Human BLy
173	564	100.0	251	5	ABP45132	Abp45132 Human BLy
174	564	100.0	251	5	ABP45468	Abp45468 Human BLy
175	564	100.0	251	5	ABP44838	Abp44838 Human BLy
176	564	100.0	251	5	ABP45059	Abp45059 Human BLy
177	564	100.0	251	5	ABP45068	Abp45068 Human BLy
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179	564	100.0	251	5	ABP45741	Abp45741 Human BLy
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183	564	100.0	251	5	ABP45046	Abp45046 Human BLy
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186	564	100.0	251	5	ABP45095	Abp45095 Human BLy
187	564	100.0	251	5	ABP45183	Abp45183 Human BLy
188	564	100.0	251	5	ABP45331	Abp45331 Human BLy
189	564	100.0	251	5	ABP45594	Abp45594 Human BLy
190	564	100.0	251	5	ABP45725	Abp45725 Human BLy
191	564	100.0	251	5	ABP44965	Abp44965 Human BLy
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193	564	100.0	251	5	ABP44981	Abp44981 Human BLy
194	564	100.0	251	5	ABP44994	Abp44994 Human BLy
195	564	100.0	251	5	ABP45327	Abp45327 Human BLy
196	564	100.0	251	5	ABP45448	Abp45448 Human BLy
197	564	100.0	251	5	ABP45758	Abp45758 Human BLy
198	564	100.0	251	5	ABP44987	Abp44987 Human BLy
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200	564	100.0	251	5	ABP45073	Abp45073 Human BLy
201	564	100.0	251	5	ABP45092	Abp45092 Human BLy
202	564	100.0	251	5	ABP45334	Abp45334 Human BLy
203	564	100.0	251	5	ABP45386	Abp45386 Human BLy
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205	564	100.0	251	5	ABP44836	Abp44836 Human BLy
206	564	100.0	251	5	ABP44865	Abp44865 Human BLy
207	564	100.0	251	5	ABP44876	Abp44876 Human BLy
208	564	100.0	251	5	ABP45791	Abp45791 Human BLy
209	564	100.0	251	5	ABP44844	Abp44844 Human BLy
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211	564	100.0	251	5	ABP44951	Abp44951 Human BLy
212	564	100.0	251	5	ABP45070	Abp45070 Human BLy
213	564	100.0	251	5	ABP45074	Abp45074 Human BLy
214	564	100.0	251	5	ABP45575	Abp45575 Human BLy
215	564	100.0	251	5	ABP45773	Abp45773 Human BLy
216	564	100.0	251	5	ABP45787	Abp45787 Human BLy
217	564	100.0	251	5	ABP45811	Abp45811 Human BLy
218	564	100.0	251	5	ABP44873	Abp44873 Human BLy
219	564	100.0	251	5	ABP45055	Abp45055 Human BLy
220	564	100.0	251	5	ABP45174	Abp45174 Human BLy
221	564	100.0	251	5	ABP45176	Abp45176 Human BLy
222	564	100.0	251	5	ABP45369	Abp45369 Human BLy
223	564	100.0	251	5	ABP45784	Abp45784 Human BLy
224	564	100.0	251	5	ABP45071	Abp45071 Human BLy
225	564	100.0	251	5	ABP45792	Abp45792 Human BLy
226	564	100.0	251	5	ABP44842	Abp44842 Human BLy
227	564	100.0	251	5	ABP45051	Abp45051 Human BLy
228	564	100.0	251	5	ABP45063	Abp45063 Human BLy
229	564	100.0	251	5	ABP45286	Abp45286 Human BLy
230	564	100.0	251	5	ABP45397	Abp45397 Human BLy
231	564	100.0	251	5	ABP45757	Abp45757 Human BLy
232	564	100.0	251	5	ABP45781	Abp45781 Human BLy
233	564	100.0	251	5	ABP44834	Abp44834 Human BLy
234	564	100.0	251	5	ABP44864	Abp44864 Human BLy
235	564	100.0	251	5	ABP44871	Abp44871 Human BLy
236	564	100.0	251	5	ABP44961	Abp44961 Human BLy
237	564	100.0	251	5	ABP45103	Abp45103 Human BLy
238	564	100.0	251	5	ABP45325	Abp45325 Human BLy
239	564	100.0	251	5	ABP45858	Abp45858 Human BLy
240	564	100.0	251	5	ABP44878	Abp44878 Human BLy
241	564	100.0	251	5	ABP45062	Abp45062 Human BLy
242	564	100.0	251	5	ABP45075	Abp45075 Human BLy
243	564	100.0	251	5	ABP45727	Abp45727 Human BLy
244	564	100.0	251	5	ABP45745	Abp45745 Human BLy

245	564	100.0	251	5	ABP45747	Abp45747 Human BLy
246	564	100.0	251	5	ABP45061	Abp45061 Human BLy
247	564	100.0	251	5	ABP45321	Abp45321 Human BLy
248	564	100.0	251	5	ABP45385	Abp45385 Human BLy
249	564	100.0	251	5	ABP45765	Abp45765 Human BLy
250	564	100.0	251	5	ABP45796	Abp45796 Human BLy
251	564	100.0	251	5	ABP45800	Abp45800 Human BLy
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253	564	100.0	251	5	ABP44875	Abp44875 Human BLy
254	564	100.0	251	5	ABP45048	Abp45048 Human BLy
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258	564	100.0	251	5	ABP45814	Abp45814 Human BLy
259	564	100.0	251	7	ADG95669	Adg95669 Single ch
260	564	100.0	251	7	ADG95702	Adg95702 Single ch
261	564	100.0	251	7	ADG95771	Adg95771 Single ch
262	564	100.0	251	7	ADG95791	Adg95791 Single ch
263	564	100.0	251	7	ADG95875	Adg95875 Single ch
264	564	100.0	251	7	ADG95876	Adg95876 Single ch
265	564	100.0	251	7	ADG95888	Adg95888 Single ch
266	564	100.0	251	7	ADG96152	Adg96152 Single ch
267	564	100.0	251	7	ADG96584	Adg96584 Single ch
268	564	100.0	251	7	ADG95691	Adg95691 Single ch
269	564	100.0	251	7	ADG95893	Adg95893 Single ch
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271	564	100.0	251	7	ADG96618	Adg96618 Single ch
272	564	100.0	251	7	ADG95760	Adg95760 Single ch
273	564	100.0	251	7	ADG95807	Adg95807 Single ch
274	564	100.0	251	7	ADG95959	Adg95959 Single ch
275	564	100.0	251	7	ADG95808	Adg95808 Single ch
276	564	100.0	251	7	ADG95896	Adg95896 Single ch
277	564	100.0	251	7	ADG95901	Adg95901 Single ch
278	564	100.0	251	7	ADG96010	Adg96010 Single ch
279	564	100.0	251	7	ADG96206	Adg96206 Single ch
280	564	100.0	251	7	ADG96294	Adg96294 Single ch
281	564	100.0	251	7	ADG96402	Adg96402 Single ch
282	564	100.0	251	7	ADG96421	Adg96421 Single ch
283	564	100.0	251	7	ADG95778	Adg95778 Single ch
284	564	100.0	251	7	ADG95919	Adg95919 Single ch
285	564	100.0	251	7	ADG96212	Adg96212 Single ch
286	564	100.0	251	7	ADG95703	Adg95703 Single ch
287	564	100.0	251	7	ADG95777	Adg95777 Single ch
288	564	100.0	251	7	ADG95792	Adg95792 Single ch
289	564	100.0	251	7	ADG95794	Adg95794 Single ch
290	564	100.0	251	7	ADG96158	Adg96158 Single ch
291	564	100.0	251	7	ADG96224	Adg96224 Single ch
292	564	100.0	251	7	ADG96552	Adg96552 Single ch
293	564	100.0	251	7	ADG96554	Adg96554 Single ch
294	564	100.0	251	7	ADG96592	Adg96592 Single ch
295	564	100.0	251	7	ADG98061	Adg98061 TNF proli
296	564	100.0	251	7	ADG95902	Adg95902 Single ch
297	564	100.0	251	7	ADG96003	Adg96003 Single ch
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302	564	100.0	251	7	ADG96619	Adg96619 Single ch
303	564	100.0	251	7	ADG95665	Adg95665 Single ch
304	564	100.0	251	7	ADG95890	Adg95890 Single ch
305	564	100.0	251	7	ADG96213	Adg96213 Single ch
306	564	100.0	251	7	ADG96572	Adg96572 Single ch
307	564	100.0	251	7	ADG96579	Adg96579 Single ch
308	564	100.0	251	7	ADG96641	Adg96641 Single ch
309	564	100.0	251	7	ADG96694	Adg96694 Single ch
310	564	100.0	251	7	ADG95692	Adg95692 Single ch
311	564	100.0	251	7	ADG95700	Adg95700 Single ch
312	564	100.0	251	7	ADG95788	Adg95788 Single ch
313	564	100.0	251	7	ADG95814	Adg95814 Single ch
314	564	100.0	251	7	ADG95882	Adg95882 Single ch
315	564	100.0	251	7	ADG95900	Adg95900 Single ch
316	564	100.0	251	7	ADG95698	Adg95698 Single ch
317	564	100.0	251	7	ADG95873	Adg95873 Single ch
318	564	100.0	251	7	ADG95895	Adg95895 Single ch
319	564	100.0	251	7	ADG95897	Adg95897 Single ch
320	564	100.0	251	7	ADG95930	Adg95930 Single ch
321	564	100.0	251	7	ADG96001	Adg96001 Single ch
322	564	100.0	251	7	ADG96196	Adg96196 Single ch
323	564	100.0	251	7	ADG96275	Adg96275 Single ch
324	564	100.0	251	7	ADG96608	Adg96608 Single ch
325	564	100.0	251	7	ADG96627	Adg96627 Single ch
326	564	100.0	251	7	ADG95806	Adg95806 Single ch
327	564	100.0	251	7	ADG95871	Adg95871 Single ch
328	564	100.0	251	7	ADG95884	Adg95884 Single ch
329	564	100.0	251	7	ADG95898	Adg95898 Single ch
330	564	100.0	251	7	ADG96148	Adg96148 Single ch
331	564	100.0	251	7	ADG95705	Adg95705 Single ch
332	564	100.0	251	7	ADG96113	Adg96113 Single ch
333	564	100.0	251	7	ADG96154	Adg96154 Single ch
334	564	100.0	251	7	ADG96599	Adg96599 Single ch
335	564	100.0	251	7	ADG95886	Adg95886 Single ch
336	564	100.0	251	7	ADG96295	Adg96295 Single ch
337	564	100.0	251	7	ADG96585	Adg96585 Single ch
338	564	100.0	251	7	ADG96688	Adg96688 Single ch
339	564	100.0	251	7	ADG95656	Adg95656 Single ch
340	564	100.0	251	7	ADG95671	Adg95671 Single ch
341	564	100.0	251	7	ADG95776	Adg95776 Single ch
342	564	100.0	251	7	ADG95877	Adg95877 Single ch
343	564	100.0	251	7	ADG95922	Adg95922 Single ch
344	564	100.0	251	7	ADG95923	Adg95923 Single ch
345	564	100.0	251	7	ADG95988	Adg95988 Single ch
346	564	100.0	251	7	ADG96568	Adg96568 Single ch
347	564	100.0	251	7	ADG96590	Adg96590 Single ch
348	564	100.0	251	7	ADG98059	Adg98059 TNF proli
349	564	100.0	251	7	ADG95661	Adg95661 Single ch
350	564	100.0	251	7	ADG95663	Adg95663 Single ch
351	564	100.0	251	7	ADG95821	Adg95821 Single ch
352	564	100.0	251	7	ADG95878	Adg95878 Single ch
353	564	100.0	251	7	ADG95889	Adg95889 Single ch
354	564	100.0	251	7	ADG96161	Adg96161 Single ch
355	564	100.0	251	7	ADG96617	Adg96617 Single ch
356	564	100.0	251	7	ADG96623	Adg96623 Single ch
357	564	100.0	251	7	ADG96624	Adg96624 Single ch
358	564	100.0	251	7	ADG96685	Adg96685 Single ch
359	564	100.0	251	7	ADG96686	Adg96686 Single ch
360	564	100.0	252	5	ABP45623	Abp45623 Human BLy
361	564	100.0	252	5	ABP45776	Abp45776 Human BLy
362	564	100.0	252	5	ABP45300	Abp45300 Human BLy
363	564	100.0	252	5	ABP45684	Abp45684 Human BLy
364	564	100.0	252	5	ABP45420	Abp45420 Human BLy
365	564	100.0	252	5	ABP45864	Abp45864 Human BLy
366	564	100.0	252	5	ABP45390	Abp45390 Human BLy
367	564	100.0	252	5	ABP45424	Abp45424 Human BLy
368	564	100.0	252	5	ABP45601	Abp45601 Human BLy
369	564	100.0	252	5	ABP45663	Abp45663 Human BLy
370	564	100.0	252	5	ABP45863	Abp45863 Human BLy
371	564	100.0	252	5	ABP45404	Abp45404 Human BLy
372	564	100.0	252	5	ABP45761	Abp45761 Human BLy
373	564	100.0	252	5	ABP45810	Abp45810 Human BLy
374	564	100.0	252	5	ABP45616	Abp45616 Human BLy
375	564	100.0	252	5	ABP45647	Abp45647 Human BLy
376	564	100.0	252	5	ABP45645	Abp45645 Human BLy
377	564	100.0	252	5	ABP45315	Abp45315 Human BLy
378	564	100.0	252	7	ADG96474	Adg96474 Single ch
379	564	100.0	252	7	ADG96511	Adg96511 Single ch
380	564	100.0	252	7	ADG96247	Adg96247 Single ch
381	564	100.0	252	7	ADG96690	Adg96690 Single ch
382	564	100.0	252	7	ADG96231	Adg96231 Single ch
383	564	100.0	252	7	ADG96251	Adg96251 Single ch
384	564	100.0	252	7	ADG96450	Adg96450 Single ch
385	564	100.0	252	7	ADG96142	Adg96142 Single ch
386	564	100.0	252	7	ADG96603	Adg96603 Single ch
387	564	100.0	252	7	ADG96637	Adg96637 Single ch
388	564	100.0	252	7	ADG96127	Adg96127 Single ch
389	564	100.0	252	7	ADG96490	Adg96490 Single ch
390	564	100.0	252	7	ADG96428	Adg96428 Single ch

391	564	100.0	252	7	ADG96217	Adg96217 Single ch
392	564	100.0	252	7	ADG96472	Adg96472 Single ch
393	564	100.0	252	7	ADG96588	Adg96588 Single ch
394	564	100.0	252	7	ADG96443	Adg96443 Single ch
395	564	100.0	252	7	ADG96691	Adg96691 Single ch
396	564	100.0	253	5	ABP45081	Abp45081 Human BLy
397	564	100.0	253	5	ABP45407	Abp45407 Human BLy
398	564	100.0	253	5	ABP45421	Abp45421 Human BLy
399	564	100.0	253	5	ABP45082	Abp45082 Human BLy
400	564	100.0	253	5	ABP45322	Abp45322 Human BLy
401	564	100.0	253	5	ABP45083	Abp45083 Human BLy
402	564	100.0	253	5	ABP45089	Abp45089 Human BLy
403	564	100.0	253	5	ABP44992	Abp44992 Human BLy
404	564	100.0	253	5	ABP44995	Abp44995 Human BLy
405	564	100.0	253	5	ABP44843	Abp44843 Human BLy
406	564	100.0	253	5	ABP45388	Abp45388 Human BLy
407	564	100.0	253	5	ABP45661	Abp45661 Human BLy
408	564	100.0	253	5	ABP45639	Abp45639 Human BLy
409	564	100.0	253	5	ABP45169	Abp45169 Human BLy
410	564	100.0	253	5	ABP45293	Abp45293 Human BLy
411	564	100.0	253	5	ABP44869	Abp44869 Human BLy
412	564	100.0	253	5	ABP44920	Abp44920 Human BLy
413	564	100.0	253	5	ABP45085	Abp45085 Human BLy
414	564	100.0	253	5	ABP45625	Abp45625 Human BLy
415	564	100.0	253	5	ABP45802	Abp45802 Human BLy
416	564	100.0	253	5	ABP45803	Abp45803 Human BLy
417	564	100.0	253	5	ABP45326	Abp45326 Human BLy
418	564	100.0	253	5	ABP45328	Abp45328 Human BLy
419	564	100.0	253	5	ABP44955	Abp44955 Human BLy
420	564	100.0	253	5	ABP44978	Abp44978 Human BLy
421	564	100.0	253	5	ABP44825	Abp44825 Human BLy
422	564	100.0	253	5	ABP44983	Abp44983 Human BLy
423	564	100.0	253	5	ABP45090	Abp45090 Human BLy
424	564	100.0	253	5	ABP45608	Abp45608 Human BLy
425	564	100.0	253	7	ADG95822	Adg95822 Single ch
426	564	100.0	253	7	ADG95912	Adg95912 Single ch
427	564	100.0	253	7	ADG96120	Adg96120 Single ch
428	564	100.0	253	7	ADG95747	Adg95747 Single ch
429	564	100.0	253	7	ADG95910	Adg95910 Single ch
430	564	100.0	253	7	ADG96466	Adg96466 Single ch
431	564	100.0	253	7	ADG96488	Adg96488 Single ch
432	564	100.0	253	7	ADG95652	Adg95652 Single ch
433	564	100.0	253	7	ADG95782	Adg95782 Single ch
434	564	100.0	253	7	ADG95819	Adg95819 Single ch
435	564	100.0	253	7	ADG95908	Adg95908 Single ch
436	564	100.0	253	7	ADG96155	Adg96155 Single ch
437	564	100.0	253	7	ADG96630	Adg96630 Single ch
438	564	100.0	253	7	ADG96248	Adg96248 Single ch
439	564	100.0	253	7	ADG95670	Adg95670 Single ch
440	564	100.0	253	7	ADG96629	Adg96629 Single ch
441	564	100.0	253	7	ADG95916	Adg95916 Single ch
442	564	100.0	253	7	ADG96149	Adg96149 Single ch
443	564	100.0	253	7	ADG95696	Adg95696 Single ch
444	564	100.0	253	7	ADG95805	Adg95805 Single ch
445	564	100.0	253	7	ADG96215	Adg96215 Single ch
446	564	100.0	253	7	ADG96234	Adg96234 Single ch
447	564	100.0	253	7	ADG95810	Adg95810 Single ch
448	564	100.0	253	7	ADG95909	Adg95909 Single ch
449	564	100.0	253	7	ADG95996	Adg95996 Single ch
450	564	100.0	253	7	ADG96435	Adg96435 Single ch
451	564	100.0	253	7	ADG96452	Adg96452 Single ch
452	564	100.0	253	7	ADG95917	Adg95917 Single ch
453	564	100.0	253	7	ADG96153	Adg96153 Single ch
454	564	100.0	254	5	ABP44960	Abp44960 Human BLy
455	564	100.0	254	5	ABP45278	Abp45278 Human BLy
456	564	100.0	254	5	ABP45339	Abp45339 Human BLy
457	564	100.0	254	5	ABP45430	Abp45430 Human BLy
458	564	100.0	254	5	ABP45439	Abp45439 Human BLy
459	564	100.0	254	5	ABP44972	Abp44972 Human BLy
460	564	100.0	254	5	ABP45724	Abp45724 Human BLy
461	564	100.0	254	5	ABP45184	Abp45184 Human BLy
462	564	100.0	254	5	ABP45186	Abp45186 Human BLy
463	564	100.0	254	5	ABP45690	Abp45690 Human BLy
464	564	100.0	254	5	ABP45769	Abp45769 Human BLy
465	564	100.0	254	5	ABP44970	Abp44970 Human BLy
466	564	100.0	254	5	ABP45614	Abp45614 Human BLy
467	564	100.0	254	5	ABP45417	Abp45417 Human BLy
468	564	100.0	254	5	ABP45567	Abp45567 Human BLy
469	564	100.0	254	5	ABP45748	Abp45748 Human BLy
470	564	100.0	254	5	ABP44862	Abp44862 Human BLy
471	564	100.0	254	5	ABP45323	Abp45323 Human BLy
472	564	100.0	254	5	ABP45329	Abp45329 Human BLy
473	564	100.0	254	5	ABP45394	Abp45394 Human BLy
474	564	100.0	254	5	ABP45785	Abp45785 Human BLy
475	564	100.0	254	5	ABP44870	Abp44870 Human BLy
476	564	100.0	254	5	ABP45185	Abp45185 Human BLy
477	564	100.0	254	5	ABP45077	Abp45077 Human BLy
478	564	100.0	254	5	ABP45662	Abp45662 Human BLy
479	564	100.0	254	7	ADG95904	Adg95904 Single ch
480	564	100.0	254	7	ADG96012	Adg96012 Single ch
481	564	100.0	254	7	ADG96257	Adg96257 Single ch
482	564	100.0	254	7	ADG96266	Adg96266 Single ch
483	564	100.0	254	7	ADG96551	Adg96551 Single ch
484	564	100.0	254	7	ADG95787	Adg95787 Single ch
485	564	100.0	254	7	ADG96489	Adg96489 Single ch
486	564	100.0	254	7	ADG95689	Adg95689 Single ch
487	564	100.0	254	7	ADG96244	Adg96244 Single ch
488	564	100.0	254	7	ADG95799	Adg95799 Single ch
489	564	100.0	254	7	ADG96612	Adg96612 Single ch
490	564	100.0	254	7	ADG95697	Adg95697 Single ch
491	564	100.0	254	7	ADG96575	Adg96575 Single ch
492	564	100.0	254	7	ADG96105	Adg96105 Single ch
493	564	100.0	254	7	ADG96156	Adg96156 Single ch
494	564	100.0	254	7	ADG96441	Adg96441 Single ch
495	564	100.0	254	7	ADG96394	Adg96394 Single ch
496	564	100.0	254	7	ADG96517	Adg96517 Single ch
497	564	100.0	254	7	ADG96013	Adg96013 Single ch
498	564	100.0	254	7	ADG96166	Adg96166 Single ch
499	564	100.0	254	7	ADG96150	Adg96150 Single ch
500	564	100.0	254	7	ADG96221	Adg96221 Single ch
501	564	100.0	254	7	ADG95797	Adg95797 Single ch
502	564	100.0	254	7	ADG96011	Adg96011 Single ch
503	564	100.0	254	7	ADG96596	Adg96596 Single ch
504	564	100.0	255	5	ABP45179	Abp45179 Human BLy
505	564	100.0	255	5	ABP45808	Abp45808 Human BLy
506	564	100.0	255	5	ABP45396	Abp45396 Human BLy
507	564	100.0	255	5	ABP44830	Abp44830 Human BLy
508	564	100.0	255	7	ADG95657	Adg95657 Single ch
509	564	100.0	255	7	ADG96635	Adg96635 Single ch
510	564	100.0	255	7	ADG96006	Adg96006 Single ch
511	564	100.0	255	7	ADG96223	Adg96223 Single ch
512	564	100.0	256	5	ABP45381	Abp45381 Human BLy
513	564	100.0	256	5	ABP45629	Abp45629 Human BLy
514	564	100.0	256	5	ABP45593	Abp45593 Human BLy
515	564	100.0	256	7	ADG96420	Adg96420 Single ch
516	564	100.0	256	7	ADG96208	Adg96208 Single ch
517	564	100.0	256	7	ADG96456	Adg96456 Single ch
518	564	100.0	257	5	ABP44947	Abp44947 Human BLy
519	564	100.0	257	5	ABP45343	Abp45343 Human BLy
520	564	100.0	257	5	ABP45316	Abp45316 Human BLy
521	564	100.0	257	5	ABP45565	Abp45565 Human BLy
522	564	100.0	257	5	ABP45857	Abp45857 Human BLy
523	564	100.0	257	7	ADG95774	Adg95774 Single ch
524	564	100.0	257	7	ADG96684	Adg96684 Single ch
525	564	100.0	257	7	ADG96392	Adg96392 Single ch
526	564	100.0	257	7	ADG96143	Adg96143 Single ch
527	564	100.0	257	7	ADG96170	Adg96170 Single ch
528	564	100.0	258	5	ABP45788	Abp45788 Human BLy
529	564	100.0	258	5	ABP45762	Abp45762 Human BLy
530	564	100.0	258	5	ABP45442	Abp45442 Human BLy
531	564	100.0	258	7	ADG96589	Adg96589 Single ch
532	564	100.0	258	7	ADG96615	Adg96615 Single ch
533	564	100.0	258	7	ADG96269	Adg96269 Single ch
534	564	100.0	259	5	ABP45441	Abp45441 Human BLy
535	564	100.0	259	7	ADG96268	Adg96268 Single ch
536	563	99.8	243	5	ABP45998	Abp45998 Human BLy

537	563	99.8	243	7	ADG96825	Adg96825 Single ch
538	563	99.8	244	5	ABP46000	Abp46000 Human BLy
539	563	99.8	244	5	ABP45897	Abp45897 Human BLy
540	563	99.8	244	7	ADG96827	Adg96827 Single ch
541	563	99.8	244	7	ADG96724	Adg96724 Single ch
542	563	99.8	249	5	ABP45618	Abp45618 Human BLy
543	563	99.8	249	7	ADG96445	Adg96445 Single ch
544	563	99.8	250	5	ABP45460	Abp45460 Human BLy
545	563	99.8	250	7	ADG96287	Adg96287 Single ch
546	563	99.8	251	5	ABP44929	Abp44929 Human BLy
547	563	99.8	251	5	ABP44868	Abp44868 Human BLy
548	563	99.8	251	5	ABP44841	Abp44841 Human BLy
549	563	99.8	251	5	ABP45067	Abp45067 Human BLy
550	563	99.8	251	7	ADG95668	Adg95668 Single ch
551	563	99.8	251	7	ADG95695	Adg95695 Single ch
552	563	99.8	251	7	ADG95894	Adg95894 Single ch
553	563	99.8	251	7	ADG95756	Adg95756 Single ch
554	563	99.8	254	5	ABP45728	Abp45728 Human BLy
555	563	99.8	254	7	ADG96555	Adg96555 Single ch
556	561	99.5	246	5	ABP45313	Abp45313 Human BLy
557	561	99.5	246	7	ADG96140	Adg96140 Single ch
558	561	99.5	247	5	ABP44912	Abp44912 Human BLy
559	561	99.5	247	7	ADG95739	Adg95739 Single ch
560	561	99.5	247	7	ADG95731	Adg95731 Single ch
561	561	99.5	250	5	ABP44931	Abp44931 Human BLy
562	561	99.5	250	5	ABP44857	Abp44857 Human BLy
563	561	99.5	250	7	ADG95684	Adg95684 Single ch
564	561	99.5	250	7	ADG95758	Adg95758 Single ch
565	561	99.5	251	5	ABP45065	Abp45065 Human BLy
566	561	99.5	251	5	ABP45372	Abp45372 Human BLy
567	561	99.5	251	7	ADG96199	Adg96199 Single ch
568	561	99.5	251	7	ADG95892	Adg95892 Single ch
569	561	99.5	252	5	ABP45655	Abp45655 Human BLy
570	561	99.5	252	7	ADG96482	Adg96482 Single ch
571	561	99.5	253	5	ABP45078	Abp45078 Human BLy
572	561	99.5	253	7	ADG95905	Adg95905 Single ch
573	560	99.3	111	4	AAG62957	Aag62957 Amino aci
574	560	99.3	245	5	ABP45935	Abp45935 Human BLy
575	560	99.3	245	7	ADF18275	Adf18275 Anti-TL5
576	560	99.3	245	7	ADG96762	Adg96762 Single ch
577	560	99.3	247	5	ABP45740	Abp45740 Human BLy
578	560	99.3	247	7	ADG30438	Adg30438 Human GMB
579	560	99.3	247	7	ADG30464	Adg30464 Human GMB
580	560	99.3	247	7	ADG96567	Adg96567 Single ch
581	560	99.3	248	5	ABP45606	Abp45606 Human BLy
582	560	99.3	248	7	ADG96433	Adg96433 Single ch
583	560	99.3	249	5	ABP45737	Abp45737 Human BLy
584	560	99.3	249	7	ADG96564	Adg96564 Single ch
585	560	99.3	250	5	ABP45590	Abp45590 Human BLy
586	560	99.3	250	5	ABP45449	Abp45449 Human BLy
587	560	99.3	250	7	ADG96276	Adg96276 Single ch
588	560	99.3	250	7	ADG96417	Adg96417 Single ch
589	560	99.3	251	5	ABP44940	Abp44940 Human BLy
590	560	99.3	251	5	ABP45638	Abp45638 Human BLy
591	560	99.3	251	5	ABP45695	Abp45695 Human BLy
592	560	99.3	251	5	ABP45813	Abp45813 Human BLy
593	560	99.3	251	5	ABP45052	Abp45052 Human BLy
594	560	99.3	251	5	ABP45165	Abp45165 Human BLy
595	560	99.3	251	5	ABP45764	Abp45764 Human BLy
596	560	99.3	251	5	ABP45344	Abp45344 Human BLy
597	560	99.3	251	5	ABP45306	Abp45306 Human BLy
598	560	99.3	251	5	ABP45658	Abp45658 Human BLy
599	560	99.3	251	7	ADG96465	Adg96465 Single ch
600	560	99.3	251	7	ADG96640	Adg96640 Single ch
601	560	99.3	251	7	ADG95879	Adg95879 Single ch
602	560	99.3	251	7	ADG96522	Adg96522 Single ch
603	560	99.3	251	7	ADG95992	Adg95992 Single ch
604	560	99.3	251	7	ADG96171	Adg96171 Single ch
605	560	99.3	251	7	ADG96485	Adg96485 Single ch
606	560	99.3	251	7	ADG95767	Adg95767 Single ch
607	560	99.3	251	7	ADG96133	Adg96133 Single ch
608	560	99.3	251	7	ADG96591	Adg96591 Single ch
609	560	99.3	252	5	ABP45626	Abp45626 Human BLy
610	560	99.3	252	5	ABP45679	Abp45679 Human BLy
611	560	99.3	252	7	ADG96506	Adg96506 Single ch
612	560	99.3	252	7	ADG96453	Adg96453 Single ch
613	560	99.3	253	5	ABP45443	Abp45443 Human BLy
614	560	99.3	253	5	ABP45869	Abp45869 Human BLy
615	560	99.3	253	5	ABP45087	Abp45087 Human BLy
616	560	99.3	253	5	ABP45591	Abp45591 Human BLy
617	560	99.3	253	5	ABP45368	Abp45368 Human BLy
618	560	99.3	253	7	ADG96270	Adg96270 Single ch
619	560	99.3	253	7	ADG96195	Adg96195 Single ch
620	560	99.3	253	7	ADG95914	Adg95914 Single ch
621	560	99.3	253	7	ADG96418	Adg96418 Single ch
622	560	99.3	253	7	ADG96696	Adg96696 Single ch
623	560	99.3	254	5	ABP45401	Abp45401 Human BLy
624	560	99.3	254	7	ADG96228	Adg96228 Single ch
625	560	99.3	256	5	ABP44832	Abp44832 Human BLy
626	560	99.3	256	5	ABP44861	Abp44861 Human BLy
627	560	99.3	256	7	ADG95688	Adg95688 Single ch
628	560	99.3	256	7	ADG95659	Adg95659 Single ch
629	560	99.3	257	5	ABP45568	Abp45568 Human BLy
630	560	99.3	257	7	ADG96395	Adg96395 Single ch
631	560	99.3	259	5	ABP45653	Abp45653 Human BLy
632	560	99.3	259	7	ADG96480	Adg96480 Single ch
633	559	99.1	243	5	ABP46001	Abp46001 Human BLy
634	559	99.1	243	7	ADG96828	Adg96828 Single ch
635	559	99.1	244	2	AAY06718	Aay06718 Antibody
636	559	99.1	244	8	ADO39737	Ado39737 Human c-m
637	559	99.1	247	5	ABP45341	Abp45341 Human BLy
638	559	99.1	247	5	ABP45693	Abp45693 Human BLy
639	559	99.1	247	7	ADG30462	Adg30462 Human GMB
640	559	99.1	247	7	ADG30476	Adg30476 Human GMB
641	559	99.1	247	7	ADG96520	Adg96520 Single ch
642	559	99.1	247	7	ADG96168	Adg96168 Single ch
643	559	99.1	248	5	ABP45393	Abp45393 Human BLy
644	559	99.1	248	7	ADG96220	Adg96220 Single ch
645	559	99.1	250	5	ABP45550	Abp45550 Human BLy
646	559	99.1	250	7	ADG96377	Adg96377 Single ch
647	559	99.1	251	5	ABP45036	Abp45036 Human BLy
648	559	99.1	251	5	ABP45551	Abp45551 Human BLy
649	559	99.1	251	5	ABP45121	Abp45121 Human BLy
650	559	99.1	251	5	ABP45281	Abp45281 Human BLy
651	559	99.1	251	5	ABP44919	Abp44919 Human BLy
652	559	99.1	251	5	ABP44863	Abp44863 Human BLy
653	559	99.1	251	7	ADG95948	Adg95948 Single ch
654	559	99.1	251	7	ADG96378	Adg96378 Single ch
655	559	99.1	251	7	ADG95746	Adg95746 Single ch
656	559	99.1	251	7	ADG95863	Adg95863 Single ch
657	559	99.1	251	7	ADG95690	Adg95690 Single ch
658	559	99.1	251	7	ADG96108	Adg96108 Single ch
659	559	99.1	253	5	ABP45084	Abp45084 Human BLy
660	559	99.1	253	5	ABP45438	Abp45438 Human BLy
661	559	99.1	253	5	ABP45164	Abp45164 Human BLy
662	559	99.1	253	5	ABP44874	Abp44874 Human BLy
663	559	99.1	253	5	ABP44943	Abp44943 Human BLy
664	559	99.1	253	7	ADG96265	Adg96265 Single ch
665	559	99.1	253	7	ADG95701	Adg95701 Single ch
666	559	99.1	253	7	ADG95770	Adg95770 Single ch
667	559	99.1	253	7	ADG95911	Adg95911 Single ch
668	559	99.1	253	7	ADG95991	Adg95991 Single ch
669	559	99.1	254	5	ABP45387	Abp45387 Human BLy
670	559	99.1	254	5	ABP45416	Abp45416 Human BLy
671	559	99.1	254	5	ABP45914	Abp45914 Human BLy
672	559	99.1	254	5	ABP45688	Abp45688 Human BLy
673	559	99.1	254	7	ADG96214	Adg96214 Single ch
674	559	99.1	254	7	ADG96515	Adg96515 Single ch
675	559	99.1	254	7	ADG96243	Adg96243 Single ch
676	559	99.1	254	7	ADG96741	Adg96741 Single ch
677	558	98.9	110	2	AAW78423	Aaw78423 Antibody
678	558	98.9	110	2	AAW78430	Aaw78430 Antibody
679	558	98.9	110	2	AAW78431	Aaw78431 Antibody
680	558	98.9	110	2	AAW78424	Aaw78424 Antibody
681	558	98.9	110	2	AAW78426	Aaw78426 Antibody
682	558	98.9	110	2	AAW78425	Aaw78425 Antibody

683	558	98.9	110	5	ABB97969	Abb97969 Light cha
684	558	98.9	110	5	ABB97973	Abb97973 Light cha
685	558	98.9	110	5	ABB97966	Abb97966 Light cha
686	558	98.9	110	5	ABB97967	Abb97967 Light cha
687	558	98.9	110	5	ABB97974	Abb97974 Light cha
688	558	98.9	110	5	ABB97968	Abb97968 Light cha
689	558	98.9	110	7	ADG88412	Adg88412 vegf.5 an
690	558	98.9	110	7	ADG88406	Adg88406 IgER.MAT2
691	558	98.9	110	7	ADG88411	Adg88411 Rse.15 an
692	558	98.9	110	7	ADG88404	Adg88404 Ax1.78 an
693	558	98.9	110	7	ADG88407	Adg88407 GCSFR.A4
694	558	98.9	110	7	ADG88405	Adg88405 Rse.23 an
695	558	98.9	247	5	ABP45412	Abp45412 Human BLy
696	558	98.9	247	7	ADG30425	Adg30425 Human GMB
697	558	98.9	247	7	ADG96239	Adg96239 Single ch
698	558	98.9	250	5	ABP44922	Abp44922 Human BLy
699	558	98.9	250	7	ADG95749	Adg95749 Single ch
700	558	98.9	251	5	ABP45056	Abp45056 Human BLy
701	558	98.9	251	5	ABP44968	Abp44968 Human BLy
702	558	98.9	251	5	ABP45576	Abp45576 Human BLy
703	558	98.9	251	5	ABP45035	Abp45035 Human BLy
704	558	98.9	251	5	ABP45340	Abp45340 Human BLy
705	558	98.9	251	5	ABP45749	Abp45749 Human BLy
706	558	98.9	251	5	ABP45060	Abp45060 Human BLy
707	558	98.9	251	5	ABP45047	Abp45047 Human BLy
708	558	98.9	251	5	ABP44934	Abp44934 Human BLy
709	558	98.9	251	7	ADG96403	Adg96403 Single ch
710	558	98.9	251	7	ADG96576	Adg96576 Single ch
711	558	98.9	251	7	ADG95761	Adg95761 Single ch
712	558	98.9	251	7	ADG95795	Adg95795 Single ch
713	558	98.9	251	7	ADG95887	Adg95887 Single ch
714	558	98.9	251	7	ADG95883	Adg95883 Single ch
715	558	98.9	251	7	ADG95862	Adg95862 Single ch
716	558	98.9	251	7	ADG95874	Adg95874 Single ch
717	558	98.9	251	7	ADG96167	Adg96167 Single ch
718	558	98.9	253	5	ABP44989	Abp44989 Human BLy
719	558	98.9	253	7	ADG95816	Adg95816 Single ch
720	558	98.9	254	5	ABP45291	Abp45291 Human BLy
721	558	98.9	254	5	ABP44966	Abp44966 Human BLy
722	558	98.9	254	5	ABP44990	Abp44990 Human BLy
723	558	98.9	254	7	ADG95793	Adg95793 Single ch
724	558	98.9	254	7	ADG95817	Adg95817 Single ch
725	558	98.9	254	7	ADG96118	Adg96118 Single ch
726	557	98.8	110	3	AAY96061	Aay96061 Human ant
727	557	98.8	243	5	ABP45666	Abp45666 Human BLy
728	557	98.8	243	7	ADG96493	Adg96493 Single ch
729	557	98.8	247	5	ABP44904	Abp44904 Human BLy
730	557	98.8	247	7	ADG30411	Adg30411 Human GMB
731	557	98.8	251	5	ABP45041	Abp45041 Human BLy
732	557	98.8	251	5	ABP45042	Abp45042 Human BLy
733	557	98.8	251	5	ABP45738	Abp45738 Human BLy
734	557	98.8	251	7	ADG95869	Adg95869 Single ch
735	557	98.8	251	7	ADG95868	Adg95868 Single ch
736	557	98.8	251	7	ADG96565	Adg96565 Single ch
737	557	98.8	253	5	ABP45086	Abp45086 Human BLy
738	557	98.8	253	7	ADG95913	Adg95913 Single ch
739	557	98.8	254	5	ABP45175	Abp45175 Human BLy
740	557	98.8	254	7	ADG96002	Adg96002 Single ch
741	557	98.8	256	5	ABP45307	Abp45307 Human BLy
742	557	98.8	256	5	ABP44828	Abp44828 Human BLy
743	557	98.8	256	5	ABP45398	Abp45398 Human BLy
744	557	98.8	256	7	ADG96134	Adg96134 Single ch
745	557	98.8	256	7	ADG95655	Adg95655 Single ch
746	557	98.8	256	7	ADG96225	Adg96225 Single ch
747	556	98.6	240	5	ABP45907	Abp45907 Human BLy
748	556	98.6	240	7	ADG96734	Adg96734 Single ch
749	556	98.6	245	5	ABP45739	Abp45739 Human BLy
750	556	98.6	245	7	ADG96566	Adg96566 Single ch
751	556	98.6	246	8	ADI58053	Adi58053 Reg IV-sp
752	556	98.6	247	7	ADG30460	Adg30460 Human GMB
753	556	98.6	249	5	ABP45431	Abp45431 Human BLy
754	556	98.6	249	7	ADG96258	Adg96258 Single ch
755	556	98.6	251	5	ABP44975	Abp44975 Human BLy
756	556	98.6	251	5	ABP45426	Abp45426 Human BLy
757	556	98.6	251	5	ABP45736	Abp45736 Human BLy
758	556	98.6	251	7	ADG96563	Adg96563 Single ch
759	556	98.6	251	7	ADG95802	Adg95802 Single ch
760	556	98.6	251	7	ADG96253	Adg96253 Single ch
761	556	98.6	252	5	ABP45318	Abp45318 Human BLy
762	556	98.6	252	7	ADG96145	Adg96145 Single ch
763	556	98.6	253	5	ABP45342	Abp45342 Human BLy
764	556	98.6	253	7	ADG96169	Adg96169 Single ch
765	556	98.6	255	5	ABP45597	Abp45597 Human BLy
766	556	98.6	255	7	ADG96424	Adg96424 Single ch
767	556	98.6	256	5	ABP45734	Abp45734 Human BLy
768	556	98.6	256	7	ADG96561	Adg96561 Single ch
769	555	98.4	243	7	ADG30452	Adg30452 Human GMB
770	555	98.4	251	5	ABP45462	Abp45462 Human BLy
771	555	98.4	251	5	ABP45072	Abp45072 Human BLy
772	555	98.4	251	5	ABP45782	Abp45782 Human BLy
773	555	98.4	251	7	ADG96289	Adg96289 Single ch
774	555	98.4	251	7	ADG96609	Adg96609 Single ch
775	555	98.4	251	7	ADG95899	Adg95899 Single ch
776	555	98.4	253	5	ABP45080	Abp45080 Human BLy
777	555	98.4	253	7	ADG95907	Adg95907 Single ch
778	555	98.4	254	5	ABP45076	Abp45076 Human BLy
779	555	98.4	254	7	ADG95903	Adg95903 Single ch
780	555	98.4	259	5	ABP45345	Abp45345 Human BLy
781	555	98.4	259	7	ADG96172	Adg96172 Single ch
782	554	98.2	110	2	AAW78427	Aaw78427 Antibody
783	554	98.2	110	5	ABB97970	Abb97970 Light cha
784	554	98.2	110	7	ADG88408	Adg88408 Rse.04 an
785	554	98.2	250	5	ABP45549	Abp45549 Human BLy
786	554	98.2	250	7	ADG96376	Adg96376 Single ch
787	554	98.2	251	5	ABP44957	Abp44957 Human BLy
788	554	98.2	251	7	ADG95784	Adg95784 Single ch
789	554	98.2	252	5	ABP44945	Abp44945 Human BLy
790	554	98.2	252	7	ADG95772	Adg95772 Single ch
791	554	98.2	255	5	ABP45615	Abp45615 Human BLy
792	554	98.2	255	7	ADG96442	Adg96442 Single ch
793	554	98.2	257	7	ADD31768	Add31768 Anti-beta
794	553	98.0	110	2	AAW78428	Aaw78428 Antibody
795	553	98.0	110	5	ABG97830	Abg97830 Mouse MPL
796	553	98.0	110	5	ABG35305	Abg35305 Thrombopo
797	553	98.0	110	5	ABB97971	Abb97971 Light cha
798	553	98.0	110	7	ADG88409	Adg88409 obr.4 ant
799	553	98.0	129	5	ABG97832	Abg97832 Mouse 12E
800	553	98.0	129	5	ABG35333	Abg35333 Thrombopo
801	553	98.0	247	7	ADG30419	Adg30419 Human GMB
802	553	98.0	247	7	ADG30426	Adg30426 Human GMB
803	553	98.0	250	2	AAW24062	Aaw24062 Human WSX
804	553	98.0	250	7	ADC08950	Adc08950 Human WSX
805	553	98.0	253	5	ABP44996	Abp44996 Human BLy
806	553	98.0	253	7	ADG95823	Adg95823 Single ch
807	553	98.0	256	5	ABG97834	Abg97834 Single ch
808	553	98.0	256	5	ABG35335	Abg35335 Thrombopo
809	553	98.0	266	5	ABG97835	Abg97835 Single ch
810	553	98.0	266	5	ABG35336	Abg35336 Thrombopo
811	552.5	98.0	253	5	ABP45058	Abp45058 Human BLy
812	552.5	98.0	253	7	ADG95885	Adg95885 Single ch
813	552	97.9	247	7	ADG30473	Adg30473 Human GMB
814	552	97.9	251	5	ABP45677	Abp45677 Human BLy
815	552	97.9	251	7	ADG96504	Adg96504 Single ch
816	552	97.9	254	5	ABP45768	Abp45768 Human BLy
817	552	97.9	254	5	ABP45064	Abp45064 Human BLy
818	552	97.9	254	7	ADG96595	Adg96595 Single ch
819	552	97.9	254	7	ADG95891	Adg95891 Single ch
820	551	97.7	251	5	ABP45053	Abp45053 Human BLy
821	551	97.7	251	7	ADG95880	Adg95880 Single ch
822	550	97.5	110	2	AAW78429	Aaw78429 Antibody
823	550	97.5	110	5	ABB97972	Abb97972 Light cha
824	550	97.5	110	7	ADG88410	Adg88410 Rse.20 an
825	550	97.5	251	5	ABP45799	Abp45799 Human BLy
826	550	97.5	251	7	ADG96626	Adg96626 Single ch
827	549	97.3	251	5	ABP45040	Abp45040 Human BLy
828	549	97.3	251	7	ADG95867	Adg95867 Single ch

829	548	97.2	250	5	ABP45308	Abp45308 Human BLy	902	510	90.4	110	3	AAY96060	Aay96060 Human ant
830	548	97.2	250	7	ADG96135	Adg96135 Single ch	903	510	90.4	215	6	ABR01461	Abr01461 Human ant
831	548	97.2	252	5	ABP45778	Abp45778 Human BLy	904	509.5	90.3	214	6	ABR01487	Abr01487 Human ant
832	548	97.2	252	7	ADG96605	Adg96605 Single ch	905	509.5	90.3	251	8	ADS09268	Ads09268 Human c-M
833	548	97.2	253	5	ABP45033	Abp45033 Human BLy	906	509	90.2	215	6	ABR01460	Abr01460 Human ant
834	548	97.2	253	7	ADG95860	Adg95860 Single ch	907	508	90.1	110	8	ADI22140	Adi22140 Anti-plat
835	546	96.8	251	5	ABP45789	Abp45789 Human BLy	908	508	90.1	112	4	AAU02609	Aau02609 Anti-adip
836	546	96.8	251	7	ADG96616	Adg96616 Single ch	909	508	90.1	245	6	AAE36255	Aae36255 TRAIL rec
837	545	96.6	250	5	ABP45402	Abp45402 Human BLy	910	508	90.1	245	6	AAE36256	Aae36256 TRAIL rec
838	545	96.6	250	7	ADG96229	Adg96229 Single ch	911	508	90.1	245	8	ADK82200	Adk82200 T1015A07
839	543	96.3	244	5	ABP45675	Abp45675 Human BLy	912	508	90.1	245	8	ADK82201	Adk82201 T1015E01
840	543	96.3	244	7	ADG96502	Adg96502 Single ch	913	508	90.1	246	5	ABP46066	Abp46066 Human BLy
841	543	96.3	248	5	ABP45370	Abp45370 Human BLy	914	508	90.1	246	7	ADG96893	Adg96893 Single ch
842	543	96.3	248	7	ADG96197	Adg96197 Single ch	915	507.5	90.0	214	6	ABR01485	Abr01485 Human ant
843	542	96.1	251	5	ABP45384	Abp45384 Human BLy	916	507	89.9	215	6	ABR01493	Abr01493 Human ant
844	542	96.1	251	7	ADG96211	Adg96211 Single ch	917	507	89.9	215	6	ABR01465	Abr01465 Human ant
845	540	95.7	254	5	ABP44877	Abp44877 Human BLy	918	507	89.9	250	8	ADS09260	Ads09260 Human c-M
846	540	95.7	254	7	ADG95704	Adg95704 Single ch	919	507	89.9	254	5	ABP45514	Abp45514 Human BLy
847	538	95.4	244	7	ADG30427	Adg30427 Human GMB	920	507	89.9	254	7	ADG96341	Adg96341 Single ch
848	536	95.0	251	5	ABP45816	Abp45816 Human BLy	921	506	89.7	110	8	ADI05780	Adi05780 Human mon
849	536	95.0	251	7	ADG96643	Adg96643 Single ch	922	506	89.7	111	2	AAY43257	Aay43257 VL domain
850	530	94.0	256	5	ABP43997	Abp43997 Human BLy	923	506	89.7	112	6	ADA89113	Ada89113 MS-Pro-55
851	530	94.0	256	7	ADG94824	Adg94824 Single ch	924	506	89.7	112	7	ADG74364	Adg74364 MSPRO lig
852	526	93.3	240	7	ADD31770	Add31770 Anti-beta	925	506	89.7	215	6	ABR01463	Abr01463 Human ant
853	526	93.3	247	7	ADG30444	Adg30444 Human GMB	926	506	89.7	250	8	ADS09267	Ads09267 Human c-M
854	524	92.9	245	6	AAE36251	Aae36251 TRAIL rec	927	505.5	89.6	214	8	ABM84290	Abm84290 Human dia
855	524	92.9	245	8	ADK82196	Adk82196 T1014B11	928	505.5	89.6	216	6	ABR01477	Abr01477 Human ant
856	523	92.7	235	8	ADL93659	Adl93659 Human CD4	929	505.5	89.6	236	8	ABM84301	Abm84301 Human dia
857	521	92.4	247	5	ABP45669	Abp45669 Human BLy	930	505.5	89.6	236	8	ABM84275	Abm84275 Human dia
858	521	92.4	247	7	ADG96496	Adg96496 Single ch	931	505	89.5	211	6	ABR01462	Abr01462 Human ant
859	520.5	92.3	250	5	ABP45621	Abp45621 Human BLy	932	505	89.5	215	6	ABR01491	Abr01491 Human ant
860	520.5	92.3	250	7	ADG96448	Adg96448 Single ch	933	505	89.5	215	6	ABR01480	Abr01480 Human ant
861	518.5	91.9	253	5	ABP45673	Abp45673 Human BLy	934	505	89.5	215	6	ABR01499	Abr01499 Human ant
862	518.5	91.9	253	7	ADG96500	Adg96500 Single ch	935	504	89.4	215	6	ABR01464	Abr01464 Human ant
863	518	91.8	245	5	ABP46078	Abp46078 Human BLy	936	503.5	89.3	112	4	AAG62947	Aag62947 Amino aci
864	518	91.8	245	7	ADG96905	Adg96905 Single ch	937	503.5	89.3	216	6	ABR01483	Abr01483 Human ant
865	517	91.7	110	8	ADL93592	Adl93592 Human CD4	938	503.5	89.3	257	5	ABP45699	Abp45699 Human BLy
866	517	91.7	247	7	ADG30472	Adg30472 Human GMB	939	503.5	89.3	257	7	ADG96526	Adg96526 Single ch
867	516.5	91.6	162	7	ADD28284	Add28284 Human het	940	503	89.2	111	7	ADL91343	Adl91343 VL chain
868	516	91.5	241	5	ABP45877	Abp45877 Human BLy	941	503	89.2	111	8	ADO36370	Ado36370 Intracell
869	516	91.5	241	5	ABP46044	Abp46044 Human BLy	942	503	89.2	215	6	ABR01479	Abr01479 Human ant
870	516	91.5	241	7	ADG96871	Adg96871 Single ch	943	502	89.0	110	6	ABR55828	Abr55828 Lambda ch
871	516	91.5	241	7	ADG96704	Adg96704 Single ch	944	502	89.0	111	2	AAY43256	Aay43256 VL domain
872	516	91.5	242	5	ABP45873	Abp45873 Human BLy	945	501	88.8	215	6	ABR01500	Abr01500 Human ant
873	516	91.5	242	7	ADG96700	Adg96700 Single ch	946	501	88.8	235	4	AAB36212	Aab36212 Human imm
874	516	91.5	243	8	ADN07002	Adn07002 Human EFG	947	501	88.8	256	5	ABP46069	Abp46069 Human BLy
875	516	91.5	247	5	ABP45674	Abp45674 Human BLy	948	501	88.8	256	7	ADG96896	Adg96896 Single ch
876	516	91.5	247	7	ADG30463	Adg30463 Human GMB	949	500	88.7	258	5	ABP45354	Abp45354 Human BLy
877	516	91.5	247	7	ADG30458	Adg30458 Human GMB	950	500	88.7	258	7	ADG96181	Adg96181 Single ch
878	516	91.5	247	7	ADG96501	Adg96501 Single ch	951	499	88.5	235	8	ABM85070	Abm85070 Human dia
879	516	91.5	251	5	ABP44914	Abp44914 Human BLy	952	499	88.5	235	8	ABM84295	Abm84295 Human dia
880	516	91.5	251	5	ABP44906	Abp44906 Human BLy	953	498.5	88.4	214	6	ABR01478	Abr01478 Human ant
881	516	91.5	251	7	ADG95733	Adg95733 Single ch	954	498	88.3	246	5	ABP46068	Abp46068 Human BLy
882	516	91.5	251	7	ADG95741	Adg95741 Single ch	955	498	88.3	246	7	ADG96895	Adg96895 Single ch
883	516	91.5	251	8	ADG34311	Adg34311 Neurokini	956	497	88.1	148	4	ABG12883	Abg12883 Novel hum
884	516	91.5	256	5	ABP45780	Abp45780 Human BLy	957	497	88.1	251	5	ABP44999	Abp44999 Human BLy
885	516	91.5	256	7	ADG96607	Adg96607 Single ch	958	497	88.1	251	5	ABP45002	Abp45002 Human BLy
886	516	91.5	258	5	ABP45162	Abp45162 Human BLy	959	497	88.1	251	7	ADG95826	Adg95826 Single ch
887	516	91.5	258	7	ADG95989	Adg95989 Single ch	960	497	88.1	251	7	ADG95829	Adg95829 Single ch
888	516	91.5	258	7	ADG98062	Adg98062 TNF proli	961	496.5	88.0	216	6	ABR01473	Abr01473 Human ant
889	515.5	91.4	236	8	ABM84286	Abm84286 Human dia	962	496.5	88.0	216	6	ABR01488	Abr01488 Human ant
890	514	91.1	215	6	ABR01498	Abr01498 Human ant	963	496	87.9	235	2	AAR31024	Aar31024 Antibody
891	513	91.0	112	6	ADA89109	Ada89109 MS-Pro-26	964	496	87.9	244	5	ABP45360	Abp45360 Human BLy
892	513	91.0	112	7	ADG74360	Adg74360 MSPRO lig	965	496	87.9	244	7	ADG96187	Adg96187 Single ch
893	512.5	90.9	214	6	ABR01490	Abr01490 Human ant	966	495.5	87.9	110	2	AAW27548	Aaw27548 Human Ab
894	512	90.8	117	4	AAG80206	Aag80206 Human aut	967	495.5	87.9	110	6	ABJ18684	Abj18684 Antibody
895	512	90.8	215	6	ABR01476	Abr01476 Human ant	968	495.5	87.9	110	6	ABJ18726	Abj18726 Antibody
896	512	90.8	215	6	ABR01466	Abr01466 Human ant	969	494.5	87.7	125	2	AAW90283	Aaw90283 Human ant
897	511.5	90.7	112	5	ABP54971	Abp54971 Anti-idio	970	494.5	87.7	216	6	ABR01482	Abr01482 Human ant
898	511.5	90.7	114	3	AAB30585	Aab30585 A human v	971	494.5	87.7	236	4	ABG19293	Abg19293 Novel hum
899	511.5	90.7	219	3	AAB30594	Aab30594 Variable	972	494	87.6	110	6	ADA89105	Ada89105 MS-Pro-11
900	511.5	90.7	219	5	ABG80711	Abg80711 Amyloid p	973	494	87.6	110	7	ADG74356	Adg74356 MSPRO lig
901	511	90.6	215	6	ABR01496	Abr01496 Human ant	974	493.5	87.5	112	6	ADA90115	Ada90115 Anti-Abet

975	493.5	87.5	112	6	AAO31080	Aao31080	Human ant
976	493.5	87.5	234	8	ABM85071	Abm85071	Human dia
977	492.5	87.3	112	8	ADQ75243	Adq75243	Immunoglo
978	492.5	87.3	214	8	ABM85079	Abm85079	Human dia
979	492.5	87.3	236	8	ABM85065	Abm85065	Human dia
980	492.5	87.3	290	8	ADN06987	Adn06987	Human EFG
981	492	87.2	120	5	ABB07174	Abb07174	EBV trans
982	492	87.2	120	8	ADI26664	Adi26664	Human ant
983	492	87.2	131	2	AAR31535	Aar31535	MH4H7 MAb
984	492	87.2	252	7	ADG30493	Adg30493	Human GMC
985	491	87.1	110	4	AAU02620	Aau02620	Anti-adip
986	491	87.1	111	2	AAR89148	Aar89148	Human ant
987	491	87.1	111	7	ADH44147	Adh44147	Human ant
988	491	87.1	235	6	ABU61023	Abu61023	Human ova
989	490	86.9	213	6	ABR01501	Abr01501	Human ant
990	490	86.9	213	6	ABR01502	Abr01502	Human ant
991	490	86.9	258	5	ABP46079	Abp46079	Human BLy
992	490	86.9	258	7	ADG96906	Adg96906	Single ch
993	489	86.7	213	8	ABM85074	Abm85074	Human dia
994	489	86.7	222	7	ADE07926	Ade07926	Novel pro
995	489	86.7	253	8	ADS09256	Ads09256	Human c-M
996	488.5	86.6	111	7	ADF90882	Adf90882	Human hep
997	488	86.5	117	4	AAG80216	Aag80216	Human aut
998	488	86.5	213	6	ABR01484	Abr01484	Human ant
999	488	86.5	244	5	ABP45361	Abp45361	Human BLy
1000	488	86.5	244	7	ADG96188	Adg96188	Single ch
1001	487.5	86.4	216	6	ABR01494	Abr01494	Human ant
1002	487.5	86.4	252	5	ABP45451	Abp45451	Human BLy
1003	487.5	86.4	252	7	ADG96278	Adg96278	Single ch
1004	487	86.3	245	8	ADI58081	Adi58081	Reg IV-sp
1005	486	86.2	110	2	AAR13183	Aar13183	Variable
1006	485	86.0	110	4	AAU02577	Aau02577	Anti-adip
1007	485	86.0	130	2	AAW70377	Aaw70377	Anti-huma
1008	485	86.0	245	6	AAE36252	Aae36252	TRAIL rec
1009	485	86.0	245	8	ADK82197	Adk82197	T1014F11
1010	484	85.8	110	6	ABR63614	Abr63614	Human gly
1011	483.5	85.7	250	5	ABP44848	Abp44848	Human BLy
1012	483.5	85.7	250	7	ADG95675	Adg95675	Single ch
1013	483	85.6	110	8	ADO36404	Ado36404	Intracell
1014	483	85.6	242	6	ABU08021	Abu08021	Monoclona
1015	483	85.6	242	7	ADF65786	Adf65786	Human ant
1016	483	85.6	242	8	ADJ92521	Adj92521	Human SO5
1017	483	85.6	245	6	AAE36246	Aae36246	TRAIL rec
1018	483	85.6	245	8	ADK82191	Adk82191	T1014A04
1019	482	85.5	161	7	ADD28285	Add28285	Human het
1020	482	85.5	166	7	ADD28257	Add28257	Human het
1021	482	85.5	245	6	AAE36247	Aae36247	TRAIL rec
1022	482	85.5	245	8	ADK82192	Adk82192	T1014G03
1023	480	85.1	166	7	ADD28258	Add28258	Human het
1024	480	85.1	254	5	ABP45533	Abp45533	Human BLy
1025	480	85.1	254	7	ADG96360	Adg96360	Single ch
1026	476.5	84.5	253	5	ABP45353	Abp45353	Human BLy
1027	476.5	84.5	253	7	ADG96180	Adg96180	Single ch
1028	476	84.4	151	4	ABG12884	Abg12884	Novel hum
1029	476	84.4	245	6	AAE36249	Aae36249	TRAIL rec
1030	476	84.4	245	8	ADK82194	Adk82194	T1014A12
1031	476	84.4	256	5	ABP44896	Abp44896	Human BLy
1032	476	84.4	256	7	ADG95723	Adg95723	Single ch
1033	475.5	84.3	214	8	ABM85072	Abm85072	Human dia
1034	475.5	84.3	236	8	ABM85084	Abm85084	Human dia
1035	474	84.0	99	7	ADJ80339	Adj80339	Vlambda g
1036	474	84.0	249	2	AAY06713	Aay06713	Antibody
1037	474	84.0	249	8	ADO39732	Ado39732	Human c-m
1038	473	83.9	247	6	AAO31142	Aao31142	Human CM0
1039	472.5	83.8	255	5	ABP45222	Abp45222	Human BLy
1040	472.5	83.8	255	7	ADG96049	Adg96049	Single ch
1041	472	83.7	245	6	AAE36253	Aae36253	TRAIL rec
1042	472	83.7	245	8	ADK82198	Adk82198	T1014G04
1043	471	83.5	243	4	AAG65591	Aag65591	Anti-hEDR
1044	471	83.5	249	4	ABG12886	Abg12886	Novel hum
1045	470	83.3	249	4	AAB85908	Aab85908	Amino aci
1046	469.5	83.2	109	4	AAB69602	Aab69602	Huntingti
1047	469.5	83.2	239	4	AAB69603	Aab69603	Huntingti
1048	469	83.2	161	7	ADD28286	Add28286	Human het
1049	469	83.2	166	7	ADD28256	Add28256	Human het
1050	468.5	83.1	253	5	ABP45509	Abp45509	Human BLy
1051	468.5	83.1	253	7	ADG96336	Adg96336	Single ch
1052	468	83.0	235	8	ABM84294	Abm84294	Human dia
1053	467.5	82.9	255	5	ABP44895	Abp44895	Human BLy
1054	467.5	82.9	255	7	ADG95722	Adg95722	Single ch
1055	467.5	82.9	256	5	ABP45198	Abp45198	Human BLy
1056	467.5	82.9	256	7	ADG96025	Adg96025	Single ch
1057	467	82.8	111	8	ADQ91394	Adq91394	Amino aci
1058	466.5	82.7	111	7	ADK17416	Adk17416	Anti-huma
1059	466.5	82.7	111	8	ADG42838	Adg42838	scFv Ab12
1060	466.5	82.7	240	5	ABP45887	Abp45887	Human BLy
1061	466.5	82.7	240	7	ADG96714	Adg96714	Single ch
1062	465.5	82.5	243	5	ABP45898	Abp45898	Human BLy
1063	465.5	82.5	243	5	ABP46040	Abp46040	Human BLy
1064	465.5	82.5	243	5	ABP45905	Abp45905	Human BLy
1065	465.5	82.5	243	7	ADG96867	Adg96867	Single ch
1066	465.5	82.5	243	7	ADG96725	Adg96725	Single ch
1067	465.5	82.5	243	7	ADG96732	Adg96732	Single ch
1068	465	82.4	111	7	ADH44146	Adh44146	Human ant
1069	465	82.4	235	4	ABG19290	Abg19290	Novel hum
1070	465	82.4	236	4	ABG22850	Abg22850	Novel hum
1071	464	82.3	255	6	AAO31143	Aao31143	Human CM0
1072	463.5	82.2	246	5	ABP45230	Abp45230	Human BLy
1073	463.5	82.2	246	7	ADG96057	Adg96057	Single ch
1074	463.5	82.2	247	8	ADS09250	Ads09250	Human c-M
1075	463	82.1	110	6	ABR55802	Abr55802	Lambda ch
1076	463	82.1	111	2	AAR45606	Aar45606	Monoclona
1077	463	82.1	117	4	AAG80210	Aag80210	Human aut
1078	463	82.1	245	6	AAE36250	Aae36250	TRAIL rec
1079	463	82.1	245	8	ADK82195	Adk82195	T1014B01
1080	460	81.6	243	7	ADG30420	Adg30420	Human GMB
1081	460	81.6	247	5	ABP45686	Abp45686	Human BLy
1082	460	81.6	247	7	ADG96513	Adg96513	Single ch
1083	460	81.6	248	5	ABP45588	Abp45588	Human BLy
1084	460	81.6	248	7	ADF18276	Adf18276	Anti-TL5
1085	460	81.6	248	7	ADG96415	Adg96415	Single ch
1086	460	81.6	251	5	ABP45160	Abp45160	Human BLy
1087	460	81.6	251	5	ABP45485	Abp45485	Human BLy
1088	460	81.6	251	7	ADG95987	Adg95987	Single ch
1089	460	81.6	251	7	ADG96312	Adg96312	Single ch
1090	460	81.6	254	5	ABP43992	Abp43992	Human BLy
1091	460	81.6	254	5	ABP45284	Abp45284	Human BLy
1092	460	81.6	254	7	ADG94819	Adg94819	Single ch
1093	460	81.6	254	7	ADG96111	Adg96111	Single ch
1094	459	81.4	250	8	ADS09244	Ads09244	Human c-M
1095	459	81.4	251	4	ABG19291	Abg19291	Novel hum
1096	458	81.2	110	5	AAE28877	Aae28877	Human KDR
1097	458	81.2	110	6	ABJ26770	Abj26770	VEGF bind
1098	458	81.2	110	7	ADD24432	Add24432	Human lig
1099	458	81.2	110	7	ADD80809	Add80809	Human KDR
1100	458	81.2	110	8	ADK18285	Adk18285	KDR bindi
1101	458	81.2	244	4	ABG19296	Abg19296	Novel hum
1102	457.5	81.1	249	8	ADI58070	Adi58070	Reg IV-sp
1103	457	81.0	254	5	ABP44827	Abp44827	Human BLy
1104	457	81.0	254	7	ADG95654	Adg95654	Single ch
1105	456.5	80.9	108	4	AAG93625	Aag93625	Human ant
1106	456.5	80.9	108	6	ABO27432	Abo27432	Anti-Rh(D
1107	456.5	80.9	253	5	ABP45238	Abp45238	Human BLy
1108	456.5	80.9	253	7	ADG96065	Adg96065	Single ch
1109	456.5	80.9	259	5	ABP45236	Abp45236	Human BLy
1110	456.5	80.9	259	7	ADG96063	Adg96063	Single ch
1111	456	80.9	254	5	ABP45276	Abp45276	Human BLy
1112	456	80.9	254	7	ADG96103	Adg96103	Single ch
1113	455.5	80.8	250	8	ADS09278	Ads09278	Human c-M
1114	455	80.7	254	5	ABP44859	Abp44859	Human BLy
1115	455	80.7	254	7	ADG95686	Adg95686	Single ch
1116	454.5	80.6	252	5	ABP45456	Abp45456	Human BLy
1117	454.5	80.6	252	7	ADG96283	Adg96283	Single ch
1118	454	80.5	103	2	AAR22579	Aar22579	Light cha
1119	453	80.3	239	6	ADA91408	Ada91408	Anti-Abet
1120	453	80.3	254	5	ABP45277	Abp45277	Human BLy

1121	453	80.3	254	7	ADG96104	Adg96104 Single ch
1122	452	80.1	99	7	ADJ80341	Adj80341 Vlambda g
1123	451.5	80.1	236	4	ABG19298	Abg19298 Novel hum
1124	450.5	79.9	100	3	AAB01957	Aab01957 Wild-type
1125	449	79.6	110	5	AAE28872	Aae28872 Human KDR
1126	449	79.6	110	6	ABJ26765	Abj26765 VEGF bind
1127	449	79.6	110	7	ADD24422	Add24422 Human lig
1128	449	79.6	110	7	ADD80799	Add80799 Human clo
1129	449	79.6	110	8	ADK18275	Adk18275 KDR bindi
1130	448.5	79.5	221	5	ABP52959	Abp52959 Human lun
1131	447.5	79.3	104	4	AAG93626	Aag93626 Human ant
1132	447.5	79.3	104	6	ABO27433	Abo27433 Anti-Rh(D
1133	447	79.3	161	7	ADD28287	Add28287 Human het
1134	447	79.3	166	7	ADD28255	Add28255 Human het
1135	445.5	79.0	111	4	AAU02606	Aau02606 Anti-adip
1136	445.5	79.0	249	5	ABP46054	Abp46054 Human BLy
1137	445.5	79.0	249	7	ADG96881	Adg96881 Single ch
1138	444	78.7	99	7	ADJ80337	Adj80337 Vlambda g
1139	444	78.7	161	4	ABG12887	Abg12887 Novel hum
1140	443.5	78.6	162	4	ABG12885	Abg12885 Novel hum
1141	442.5	78.5	219	6	ABP56810	Abp56810 Human lam
1142	442	78.4	257	8	ADS09281	Ads09281 Human c-M
1143	442	78.4	258	5	ABP44851	Abp44851 Human BLy
1144	442	78.4	258	7	ADG95678	Adg95678 Single ch
1145	441	78.2	99	7	ADJ80338	Adj80338 Vlambda g
1146	441	78.2	167	7	ADM06106	Adm06106 Human pro
1147	440	78.0	97	4	ABB39374	Abb39374 Peptide #
1148	440	78.0	97	4	AAM32889	Aam32889 Peptide #
1149	440	78.0	97	4	ABB24161	Abb24161 Protein #
1150	440	78.0	97	4	AAM72656	Aam72656 Human bon
1151	440	78.0	97	4	AAM60052	Aam60052 Human bra
1152	440	78.0	97	4	ABG54353	Abg54353 Human liv
1153	440	78.0	97	5	ABG42480	Abg42480 Human pep
1154	439.5	77.9	253	5	ABP45350	Abp45350 Human BLy
1155	439.5	77.9	253	7	ADG96177	Adg96177 Single ch
1156	438.5	77.7	239	5	ABP46023	Abp46023 Human BLy
1157	438.5	77.7	239	7	ADG96850	Adg96850 Single ch
1158	438	77.7	218	7	ADG70090	Adg70090 Diversifi
1159	438	77.7	254	5	ABP45843	Abp45843 Human BLy
1160	438	77.7	254	5	ABP45846	Abp45846 Human BLy
1161	438	77.7	254	7	ADG96670	Adg96670 Single ch
1162	438	77.7	254	7	ADG96673	Adg96673 Single ch
1163	436	77.3	90	6	ABJ18698	Abj18698 Antibody
1164	434	77.0	176	4	ABG15261	Abg15261 Novel hum
1165	434	77.0	256	5	ABP45547	Abp45547 Human BLy
1166	434	77.0	256	7	ADG96374	Adg96374 Single ch
1167	433.5	76.9	100	3	AAB01960	Aab01960 High affi
1168	425.5	75.4	104	2	AAR38596	Aar38596 Human lam
1169	425.5	75.4	104	2	AAW58496	Aaw58496 Human lam
1170	425.5	75.4	104	8	ADI01158	Adi01158 Human lam
1171	424	75.2	686	5	ADI17259	Adi17259 Human NOV
1172	423.5	75.1	256	5	ABP45290	Abp45290 Human BLy
1173	423.5	75.1	256	7	ADG96117	Adg96117 Single ch
1174	422	74.8	118	4	ABG12882	Abg12882 Novel hum
1175	421	74.6	99	7	ADJ80340	Adj80340 Vlambda g
1176	418.5	74.2	100	3	AAB01958	Aab01958 Strepativ
1177	418	74.1	175	5	ABP43116	Abp43116 Human ova
1178	417.5	74.0	252	5	ABP44977	Abp44977 Human BLy
1179	417.5	74.0	252	7	ADG95804	Adg95804 Single ch
1180	412	73.0	224	7	ADG70088	Adg70088 Diversifi
1181	411.5	73.0	214	6	ABR01470	Abr01470 Human ant
1182	406	72.0	111	4	AAU02542	Aau02542 Anti-adip
1183	406	72.0	242	8	ADG34301	Adg34301 Neurokini
1184	406	72.0	242	8	ADG34317	Adg34317 Neurokini
1185	406	72.0	243	8	ADG34310	Adg34310 Neurokini
1186	406	72.0	243	8	ADG34306	Adg34306 Neurokini
1187	406	72.0	244	8	ADG34303	Adg34303 Neurokini
1188	406	72.0	245	5	ABP45915	Abp45915 Human BLy
1189	406	72.0	245	7	ADG96742	Adg96742 Single ch
1190	406	72.0	245	8	ADE83862	Ade83862 Chemokine
1191	406	72.0	245	8	ADG34308	Adg34308 Neurokini
1192	406	72.0	246	5	ABP45902	Abp45902 Human BLy
1193	406	72.0	246	5	ABP45906	Abp45906 Human BLy
1194	406	72.0	246	7	ADG96733	Adg96733 Single ch
1195	406	72.0	246	7	ADG96729	Adg96729 Single ch
1196	406	72.0	246	8	ADE83872	Ade83872 Chemokine
1197	406	72.0	247	5	ABP45671	Abp45671 Human BLy
1198	406	72.0	247	5	ABP45432	Abp45432 Human BLy
1199	406	72.0	247	5	ABP45923	Abp45923 Human BLy
1200	406	72.0	247	5	ABP45696	Abp45696 Human BLy
1201	406	72.0	247	5	ABP45888	Abp45888 Human BLy
1202	406	72.0	247	7	ADG30413	Adg30413 Human GMB
1203	406	72.0	247	7	ADG30455	Adg30455 Human GMB
1204	406	72.0	247	7	ADG96715	Adg96715 Single ch
1205	406	72.0	247	7	ADG96498	Adg96498 Single ch
1206	406	72.0	247	7	ADG96259	Adg96259 Single ch
1207	406	72.0	247	7	ADG96750	Adg96750 Single ch
1208	406	72.0	247	7	ADG96523	Adg96523 Single ch
1209	406	72.0	247	8	ADE83874	Ade83874 Chemokine
1210	406	72.0	247	8	ADG34304	Adg34304 Neurokini
1211	406	72.0	249	5	ABP46038	Abp46038 Human BLy
1212	406	72.0	249	5	ABP45408	Abp45408 Human BLy
1213	406	72.0	249	5	ABP45607	Abp45607 Human BLy
1214	406	72.0	249	7	ADG96434	Adg96434 Single ch
1215	406	72.0	249	7	ADG96235	Adg96235 Single ch
1216	406	72.0	249	7	ADG96865	Adg96865 Single ch
1217	406	72.0	249	8	ADI58054	Adi58054 Reg IV-sp
1218	406	72.0	250	8	ADG34299	Adg34299 Neurokini
1219	406	72.0	251	5	ABP45798	Abp45798 Human BLy
1220	406	72.0	251	5	ABP45298	Abp45298 Human BLy
1221	406	72.0	251	5	ABP45660	Abp45660 Human BLy
1222	406	72.0	251	7	ADG96125	Adg96125 Single ch
1223	406	72.0	251	7	ADG96487	Adg96487 Single ch
1224	406	72.0	251	7	ADG96625	Adg96625 Single ch
1225	406	72.0	251	8	ADG34300	Adg34300 Neurokini
1226	406	72.0	252	5	ABP45687	Abp45687 Human BLy
1227	406	72.0	252	7	ADG96514	Adg96514 Single ch
1228	406	72.0	253	5	ABP45925	Abp45925 Human BLy
1229	406	72.0	253	5	ABP44928	Abp44928 Human BLy
1230	406	72.0	253	5	ABP44924	Abp44924 Human BLy
1231	406	72.0	253	7	ADG95755	Adg95755 Single ch
1232	406	72.0	253	7	ADG96752	Adg96752 Single ch
1233	406	72.0	253	7	ADG95751	Adg95751 Single ch
1234	406	72.0	254	5	ABP45436	Abp45436 Human BLy
1235	406	72.0	254	7	ADG96263	Adg96263 Single ch
1236	406	72.0	256	5	ABP45596	Abp45596 Human BLy
1237	406	72.0	256	5	ABP45172	Abp45172 Human BLy
1238	406	72.0	256	5	ABP45682	Abp45682 Human BLy
1239	406	72.0	256	7	ADG96423	Adg96423 Single ch
1240	406	72.0	256	7	ADG96509	Adg96509 Single ch
1241	406	72.0	256	7	ADG95999	Adg95999 Single ch
1242	406	72.0	259	5	ABP45556	Abp45556 Human BLy
1243	406	72.0	259	5	ABP44962	Abp44962 Human BLy
1244	406	72.0	259	7	ADG96383	Adg96383 Single ch
1245	406	72.0	259	7	ADG95789	Adg95789 Single ch
1246	405	71.8	108	2	AAR88719	Aar88719 Human ant
1247	405	71.8	248	8	ADG34316	Adg34316 Neurokini
1248	404	71.6	110	4	AAU02627	Aau02627 Anti-adip
1249	404	71.6	245	8	ADG34313	Adg34313 Neurokini
1250	404	71.6	253	5	ABP44918	Abp44918 Human BLy
1251	404	71.6	253	7	ADG95745	Adg95745 Single ch
1252	404	71.6	256	5	ABP45548	Abp45548 Human BLy
1253	404	71.6	256	7	ADG96375	Adg96375 Single ch
1254	403	71.5	213	6	ABR01468	Abr01468 Human ant
1255	403	71.5	254	5	ABP45648	Abp45648 Human BLy
1256	403	71.5	254	7	ADG96475	Adg96475 Single ch
1257	402	71.3	247	5	ABP45917	Abp45917 Human BLy
1258	402	71.3	247	7	ADG96744	Adg96744 Single ch
1259	402	71.3	247	8	ADL22874	Adl22874 Anti-huma
1260	401.5	71.2	271	5	AAG66039	Aag66039 scFv 1b4
1261	401	71.1	109	5	AAU83816	Aau83816 MS-GPC-8-
1262	401	71.1	109	5	AAU83814	Aau83814 MS-GPC-8-
1263	401	71.1	109	5	ABB57584	Abb57584 HLA-DR-sp
1264	401	71.1	109	5	ABB57582	Abb57582 HLA-DR-sp
1265	400.5	71.0	245	5	ABP45853	Abp45853 Human BLy
1266	400.5	71.0	245	7	ADG96680	Adg96680 Single ch

1267	400.5	71.0	254	8	ADQ75269	Adq75269 Immunoglo
1268	400	70.9	109	5	AAU83802	Aau83802 MS-GPC-1
1269	400	70.9	109	5	ABB57552	Abb57552 HLA-DR-sp
1270	400	70.9	245	7	ADG98057	Adg98057 TNF proli
1271	399	70.7	253	5	ABP45600	Abp45600 Human BLy
1272	399	70.7	253	7	ADG96427	Adg96427 Single ch
1273	399	70.7	257	5	ABP45599	Abp45599 Human BLy
1274	399	70.7	257	7	ADG96426	Adg96426 Single ch
1275	398	70.6	109	5	AAU83808	Aau83808 MS-GPC-10
1276	398	70.6	109	5	AAU83806	Aau83806 MS-GPC-8
1277	398	70.6	109	5	ABB57566	Abb57566 HLA-DR-sp
1278	398	70.6	109	5	ABB57568	Abb57568 HLA-DR-sp
1279	398	70.6	236	2	AAW01821	Aaw01821 Primatise
1280	398	70.6	236	2	AAW63764	Aaw63764 Macaque p
1281	398	70.6	236	5	AAU11645	Aau11645 Protein s
1282	398	70.6	236	6	AAE37363	Aae37363 Monkey 16
1283	397	70.4	109	5	AAU83812	Aau83812 MS-GPC-8-
1284	397	70.4	109	5	ABB57580	Abb57580 HLA-DR-sp
1285	396	70.2	109	5	ABB57570	Abb57570 HLA-DR-sp
1286	396	70.2	110	4	AAU02558	Aau02558 Anti-adip
1287	396	70.2	235	8	ABM85086	Abm85086 Human dia
1288	396	70.2	235	8	ABM85069	Abm85069 Human dia
1289	395.5	70.1	214	6	ABR01467	Abr01467 Human ant
1290	395.5	70.1	254	5	ABP45573	Abp45573 Human BLy
1291	395.5	70.1	254	7	ADG96400	Adg96400 Single ch
1292	395	70.0	109	5	AAU83810	Aau83810 MS-GPC-8-
1293	395	70.0	109	5	ABB57578	Abb57578 HLA-DR-sp
1294	395	70.0	243	5	ABP45916	Abp45916 Human BLy
1295	395	70.0	243	7	ADG96743	Adg96743 Single ch
1296	395	70.0	248	8	ADI58045	Adi58045 Reg IV-sp
1297	394	69.9	109	2	AAW27547	Aaw27547 Human Ab
1298	394	69.9	109	6	ABJ18725	Abj18725 Antibody
1299	394	69.9	109	6	ABJ18683	Abj18683 Antibody
1300	393.5	69.8	251	5	ABP44893	Abp44893 Human BLy
1301	393.5	69.8	251	5	ABP45202	Abp45202 Human BLy
1302	393.5	69.8	251	7	ADG95720	Adg95720 Single ch
1303	393.5	69.8	251	7	ADG96029	Adg96029 Single ch
1304	393	69.7	109	5	AAU83822	Aau83822 MS-GPC-8-
1305	393	69.7	109	5	ABB57590	Abb57590 HLA-DR-sp
1306	393	69.7	247	8	ADG34314	Adg34314 Neurokini
1307	393	69.7	248	5	ABP45226	Abp45226 Human BLy
1308	393	69.7	248	7	ADG96053	Adg96053 Single ch
1309	393	69.7	250	5	ABP45269	Abp45269 Human BLy
1310	393	69.7	250	7	ADG96096	Adg96096 Single ch
1311	393	69.7	254	5	ABP46076	Abp46076 Human BLy
1312	392.5	69.6	111	6	ABR55790	Abr55790 Lambda ch
1313	392.5	69.6	255	5	ABP45142	Abp45142 Human BLy
1314	392.5	69.6	255	7	ADG95969	Adg95969 Single ch
1315	392.5	69.6	255	7	ADG96903	Adg96903 Single ch
1316	392	69.5	109	5	ABB57564	Abb57564 HLA-DR-sp
1317	392	69.5	111	6	ADA90114	Ada90114 Anti-Abet
1318	392	69.5	111	6	AAO31079	Aao31079 Human ant
1319	392	69.5	213	6	ABR01475	Abr01475 Human ant
1320	391.5	69.4	110	4	AAG93620	Aag93620 Human ant
1321	391.5	69.4	110	6	ABO27427	Abo27427 Anti-Rh(D
1322	391.5	69.4	114	6	ABP56517	Abp56517 Human ant
1323	391	69.3	111	4	AAU02585	Aau02585 Anti-adip
1324	390.5	69.2	103	4	AAB84353	Aab84353 Amino aci
1325	390	69.1	244	8	ADS09265	Ads09265 Human c-M
1326	389.5	69.1	111	4	AAU02551	Aau02551 Anti-adip
1327	389.5	69.1	111	8	ADL70797	Adl70797 Anti-TNFa
1328	389.5	69.1	111	8	ADP22196	Adp22196 Human ant
1329	389.5	69.1	162	7	ADD28289	Add28289 Human het
1330	389.5	69.1	166	7	ADD28252	Add28252 Human het
1331	389.5	69.1	247	5	ABP45481	Abp45481 Human BLy
1332	389.5	69.1	247	7	ADG96308	Adg96308 Single ch
1333	389.5	69.1	255	5	ABP45528	Abp45528 Human BLy
1334	389.5	69.1	255	7	ADG96355	Adg96355 Single ch
1335	389	69.0	109	5	AAU83820	Aau83820 MS-GPC-8-
1336	389	69.0	109	5	ABB57588	Abb57588 HLA-DR-sp
1337	389	69.0	111	2	AAW08492	Aaw08492 C6 human
1338	389	69.0	147	4	AAM39507	Aam39507 Human pol
1339	389	69.0	256	5	ABP45844	Abp45844 Human BLy
1340	389	69.0	256	7	ADG96671	Adg96671 Single ch
1341	388.5	68.9	251	5	ABP45012	Abp45012 Human BLy
1342	388.5	68.9	251	7	ADG95839	Adg95839 Single ch
1343	388	68.8	109	5	AAU83818	Aau83818 MS-GPC-8-
1344	388	68.8	109	5	ABB57586	Abb57586 HLA-DR-sp
1345	388	68.8	110	6	ADA89168	Ada89168 Human ant
1346	388	68.8	245	6	ABP60521	Abp60521 APRIL bin
1347	388	68.8	247	5	ABP46081	Abp46081 Human BLy
1348	388	68.8	247	7	ADG96908	Adg96908 Single ch
1349	387.5	68.7	111	8	ADP22414	Adp22414 Human ant
1350	387.5	68.7	111	8	ADP22398	Adp22398 Human ant
1351	387.5	68.7	252	5	ABP45494	Abp45494 Human BLy
1352	387.5	68.7	252	7	ADG96321	Adg96321 Single ch
1353	387.5	68.7	253	5	ABP45348	Abp45348 Human BLy
1354	387.5	68.7	253	7	ADG96175	Adg96175 Single ch
1355	387.5	68.7	259	5	ABP45486	Abp45486 Human BLy
1356	387.5	68.7	259	7	ADG96313	Adg96313 Single ch
1357	387	68.6	109	4	AAU02544	Aau02544 Anti-adip
1358	387	68.6	110	4	AAU02612	Aau02612 Anti-adip
1359	387	68.6	252	5	ABP45197	Abp45197 Human BLy
1360	387	68.6	252	7	ADG96024	Adg96024 Single ch
1361	387	68.6	651	4	ABG12890	Abg12890 Novel hum
1362	386.5	68.5	236	4	AAB36209	Aab36209 Human imm
1363	386.5	68.5	262	5	ABP45825	Abp45825 Human BLy
1364	386.5	68.5	262	7	ADG96652	Adg96652 Single ch
1365	386.5	68.5	288	8	ADR28055	Adr28055 NPB polyp
1366	386.5	68.5	310	2	AAW83324	Aaw83324 Single ch
1367	386.5	68.5	310	5	ABB09605	Abb09605 Amino aci
1368	386.5	68.5	310	6	ABG74386	Abg74386 Single ch
1369	386.5	68.5	310	7	ADG98739	Adg98739 Human sin
1370	386.5	68.5	310	8	ADO40448	Ado40448 Human sin
1371	386	68.4	110	4	AAU02629	Aau02629 Anti-adip
1372	386	68.4	240	5	ABP46030	Abp46030 Human BLy
1373	386	68.4	240	7	ADG96857	Adg96857 Single ch
1374	386	68.4	248	5	ABP45020	Abp45020 Human BLy
1375	386	68.4	248	7	ADG95847	Adg95847 Single ch
1376	386	68.4	254	5	ABP45962	Abp45962 Human BLy
1377	386	68.4	254	7	ADG96789	Adg96789 Single ch
1378	385.5	68.4	110	3	AAY95182	Aay95182 Anti-plat
1379	385.5	68.4	162	7	ADD28288	Add28288 Human het
1380	385.5	68.4	166	7	ADD28253	Add28253 Human het
1381	385.5	68.4	242	3	AAY95209	Aay95209 Anti-plat
1382	385.5	68.4	245	5	ABP45510	Abp45510 Human BLy
1383	385.5	68.4	245	7	ADG96337	Adg96337 Single ch
1384	385.5	68.4	258	8	ADS92884	Ads92884 Human Myo
1385	385	68.3	251	5	ABP46114	Abp46114 Human BLy
1386	385	68.3	251	7	ADG96941	Adg96941 Single ch
1387	384.5	68.2	245	8	ADS09297	Ads09297 Human c-M
1388	384.5	68.2	248	8	ADI58091	Adi58091 Reg IV-sp
1389	384.5	68.2	251	5	ABP45476	Abp45476 Human BLy
1390	384.5	68.2	251	7	ADG96303	Adg96303 Single ch
1391	384	68.1	111	2	AAW13528	Aaw13528 Anti-mela
1392	384	68.1	136	7	ADM07497	Adm07497 Canine im
1393	384	68.1	246	5	ABP45836	Abp45836 Human BLy
1394	384	68.1	246	7	ADG96663	Adg96663 Single ch
1395	384	68.1	248	5	ABP45454	Abp45454 Human BLy
1396	384	68.1	248	7	ADG96281	Adg96281 Single ch
1397	384	68.1	253	5	ABP45224	Abp45224 Human BLy
1398	384	68.1	253	7	ADG96051	Adg96051 Single ch
1399	383.5	68.0	108	5	AAO18431	Aao18431 Anti-GD2
1400	383.5	68.0	147	5	AAO15845	Aao15845 Human imm
1401	383.5	68.0	147	8	ABG75398	Abg75398 Rearrange
1402	383.5	68.0	147	8	ADO36149	Ado36149 Human Vl-
1403	383.5	68.0	243	8	ADS09284	Ads09284 Human c-M
1404	383.5	68.0	245	8	ADG34312	Adg34312 Neurokini
1405	383.5	68.0	250	7	ADG30486	Adg30486 Human GMC
1406	383.5	68.0	251	5	ABP45206	Abp45206 Human BLy
1407	383.5	68.0	251	7	ADG96033	Adg96033 Single ch
1408	383.5	68.0	252	5	ABP45495	Abp45495 Human BLy
1409	383.5	68.0	252	7	ADG96322	Adg96322 Single ch
1410	383.5	68.0	258	5	ABP45705	Abp45705 Human BLy
1411	383.5	68.0	258	5	ABP45830	Abp45830 Human BLy
1412	383.5	68.0	258	7	ADG96657	Adg96657 Single ch

1413	383.5	68.0	258	7	ADG96532	Adg96532 Single ch
1414	383	67.9	110	8	ADS09387	Ads09387 Human c-M
1415	383	67.9	113	4	AAG65569	Aag65569 Amino aci
1416	383	67.9	246	8	ADS09279	Ads09279 Human c-M
1417	383	67.9	249	5	ABP45886	Abp45886 Human BLy
1418	383	67.9	249	5	ABP46067	Abp46067 Human BLy
1419	383	67.9	249	7	ADG96713	Adg96713 Single ch
1420	383	67.9	249	7	ADG96894	Adg96894 Single ch
1421	383	67.9	269	5	AAE20408	Aae20408 Chimeric
1422	383	67.9	282	5	AAE20409	Aae20409 Chimeric
1423	383	67.9	287	5	AAE20410	Aae20410 Chimeric
1424	383	67.9	291	5	AAE20412	Aae20412 Chimeric
1425	383	67.9	296	5	AAE20411	Aae20411 Chimeric
1426	382.5	67.8	112	3	AAB39520	Aab39520 Anti-IL12
1427	382.5	67.8	234	8	ABM84293	Abm84293 Human dia
1428	382.5	67.8	245	8	ADE83864	Ade83864 Chemokine
1429	382.5	67.8	252	5	ABP45367	Abp45367 Human BLy
1430	382.5	67.8	252	7	ADG96194	Adg96194 Single ch
1431	382.5	67.8	254	5	ABP45698	Abp45698 Human BLy
1432	382.5	67.8	254	7	ADG96525	Adg96525 Single ch
1433	382	67.7	94	2	AAR22580	Aar22580 Light cha
1434	382	67.7	110	2	AAR80621	Aar80621 Human tum
1435	382	67.7	111	2	AAW19883	Aaw19883 CEA-speci
1436	382	67.7	235	8	ADR28079	Adr28079 NPB polyp
1437	382	67.7	242	2	AAY21881	Aay21881 Amino aci
1438	382	67.7	248	6	ABP60523	Abp60523 APRIL bin
1439	381.5	67.6	111	6	ABR55822	Abr55822 Lambda ch
1440	381.5	67.6	111	8	ADP22262	Adp22262 Human ant
1441	381.5	67.6	247	5	ABP46065	Abp46065 Human BLy
1442	381.5	67.6	247	7	ADG96892	Adg96892 Single ch
1443	381.5	67.6	251	5	ABP45009	Abp45009 Human BLy
1444	381.5	67.6	251	7	ADG95836	Adg95836 Single ch
1445	381.5	67.6	254	5	ABP45478	Abp45478 Human BLy
1446	381.5	67.6	254	7	ADG96305	Adg96305 Single ch
1447	381.5	67.6	255	5	ABP45851	Abp45851 Human BLy
1448	381.5	67.6	255	7	ADG96678	Adg96678 Single ch
1449	381.5	67.6	291	8	ADN06985	Adn06985 Human EFG
1450	381.5	67.6	291	8	ADN06984	Adn06984 Human EFG
1451	381	67.6	111	2	AAW08489	Aaw08489 C6 human
1452	381	67.6	114	4	AAG93619	Aag93619 Human ant
1453	381	67.6	114	6	ABO27426	Abo27426 Anti-Rh(D
1454	381	67.6	244	5	ABP45557	Abp45557 Human BLy
1455	381	67.6	244	7	ADG96384	Adg96384 Single ch
1456	381	67.6	247	8	ADR28089	Adr28089 NPB polyp
1457	381	67.6	257	5	ABP45245	Abp45245 Human BLy
1458	381	67.6	257	7	ADG96072	Adg96072 Single ch
1459	380.5	67.5	109	3	AAY95205	Aay95205 Anti-plat
1460	380.5	67.5	249	5	ABP45957	Abp45957 Human BLy
1461	380.5	67.5	249	7	ADG96784	Adg96784 Single ch
1462	380.5	67.5	250	5	ABP45201	Abp45201 Human BLy
1463	380.5	67.5	250	7	ADG96028	Adg96028 Single ch
1464	380.5	67.5	251	5	ABP45499	Abp45499 Human BLy
1465	380.5	67.5	251	5	ABP45820	Abp45820 Human BLy
1466	380.5	67.5	251	7	ADG96326	Adg96326 Single ch
1467	380.5	67.5	251	7	ADG96647	Adg96647 Single ch
1468	380	67.4	246	3	AAY15126	Aay15126 Anti-muri
1469	380	67.4	247	5	ABP45874	Abp45874 Human BLy
1470	380	67.4	247	7	ADG96701	Adg96701 Single ch
1471	380	67.4	248	6	ABP60525	Abp60525 APRIL bin
1472	380	67.4	249	5	ABP45562	Abp45562 Human BLy
1473	380	67.4	249	5	ABP45560	Abp45560 Human BLy
1474	380	67.4	249	5	ABP45561	Abp45561 Human BLy
1475	380	67.4	249	7	ADG96389	Adg96389 Single ch
1476	380	67.4	249	7	ADG96387	Adg96387 Single ch
1477	380	67.4	249	7	ADG96388	Adg96388 Single ch
1478	380	67.4	250	5	ABP45554	Abp45554 Human BLy
1479	380	67.4	250	5	ABP45555	Abp45555 Human BLy
1480	380	67.4	250	7	ADG96382	Adg96382 Single ch
1481	380	67.4	250	7	ADG96381	Adg96381 Single ch
1482	379.5	67.3	109	3	AAY95204	Aay95204 Anti-plat
1483	379.5	67.3	111	8	ADS92888	Ads92888 Human Myo
1484	379.5	67.3	112	2	AAW08488	Aaw08488 C6 human
1485	379.5	67.3	113	8	ADS12504	Ads12504 Human IGF
1486	379.5	67.3	240	3	AAY15124	Aay15124 Anti-huma
1487	379.5	67.3	240	3	AAY15125	Aay15125 Anti-muri
1488	379.5	67.3	245	5	ABP45828	Abp45828 Human BLy
1489	379.5	67.3	245	7	ADG96655	Adg96655 Single ch
1490	379.5	67.3	249	5	ABP45973	Abp45973 Human BLy
1491	379.5	67.3	249	7	ADG96800	Adg96800 Single ch
1492	379.5	67.3	251	5	ABP45214	Abp45214 Human BLy
1493	379.5	67.3	251	7	ADG96041	Adg96041 Single ch
1494	379.5	67.3	251	8	ADS12384	Ads12384 Human IGF
1495	379.5	67.3	257	5	ABP44858	Abp44858 Human BLy
1496	379.5	67.3	257	7	ADG95685	Adg95685 Single ch
1497	379.5	67.3	259	5	ABP45264	Abp45264 Human BLy
1498	379.5	67.3	259	7	ADG96091	Adg96091 Single ch
1499	379	67.2	109	5	AAO18435	Aao18435 Anti-GD2
1500	379	67.2	238	8	ADS09239	Ads09239 Human c-M

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